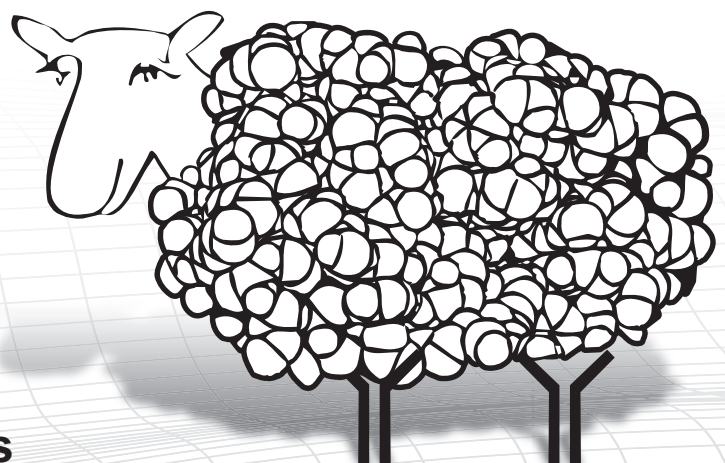




Cytokines and Growth Factors



www.abcam.com/proteins

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Scientific support: www.abcam.com/technical
Protein resources: www.abcam.com/proteins

Welcome to Abcam

About Abcam



Abcam, with offices in Cambridge, U.K., Cambridge, MA, U.S.A., Tokyo, Japan and Hong Kong was founded in 1998 by Dr. Jonathan Milner, then a researcher at Cambridge University, U.K.

“Like many life science researchers, I was frustrated by the time it took to locate and select antibodies essential for my research. This was largely due to poor information and out-of-date catalogs from the vast range of suppliers who were spread across many countries. In some cases, I also experienced difficulties with companies whose products were unreliable and whose customer service was slow and unhelpful. My vision was to build a company that offered reliable cutting-edge products and great customer service.”

It was a tough vision - Abcam was created to sell the best antibodies in the world with the most comprehensive, honest and up-to-date datasheets, fast delivery, helpful customer service and comprehensive technical support. Abcam also offers an ever expanding portfolio of proteins.

Several years on and with thousands of products across our range, Abcam ships to scientists in over 70 countries around the world. Abcam is committed to the following fundamental principles that have seen us become the first choice for thousands of life scientists throughout industry and academia:

- Quality of products and datasheets
- Helpful technical support and online technical resources
- Friendly customer service
- Fast delivery

Comprehensive

We have a policy of honesty - our customers know everything that we know about our products, as soon as we know it. Everything we know about each product is posted on the datasheet. To achieve exceptional levels of quality for our customers we provide:

- Comprehensive datasheets
- Customers' Abreviews® of our products
- Product-specific protocols used by our customers
- Customers' technical questions and our answers for each product
- Product information and new products updated daily

Helpful

Our Scientific Support and Customer Service departments are full of scientists that have many years of experience working with the types of products that we supply to our customers.

We provide continuous order progress updates, so that you always know what is happening with your order and when you should expect to receive it.



Why review?

We are building an online resource of the best products in the world and value both positive and negative feedback about how our products are performing in your hands. Abreviews® tell us what we need to work on and what we're already doing well! It also allows other scientists to find out how well a product is likely to work for them before making a purchase. This up-to-date information often provides useful data about new applications, optimal dilution conditions and images of our products at work.

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Abpoints for every Abreview®

We can offer from 50 up to 120 Abpoints based on submission time and type of application. The less characterized the product you review, the more Abpoints you will receive:

Time since last Abreview® (for protein/application combination)	Abpoints® earned
< 3 months	50
3 - 6 months	60
6 - 12 months	75
> 12 months	90
Product not yet reviewed	120

If you submit an image as well you will earn an extra 100 Abpoints! These can then be claimed back as rewards.

Find out more about Abpoints at: www.abcam.com/abpoints



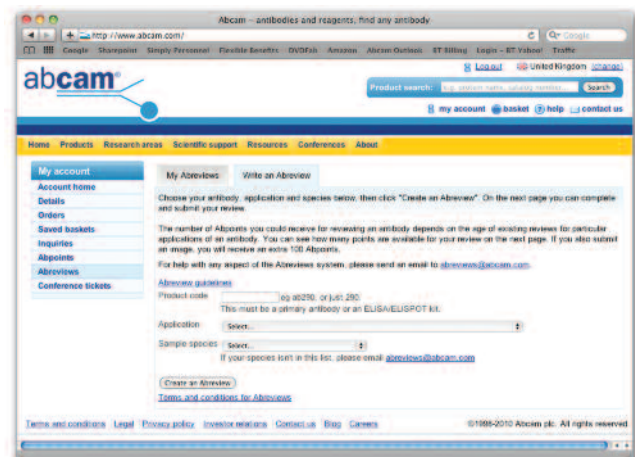
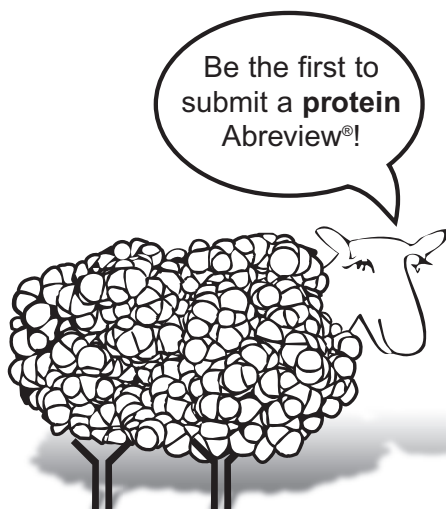
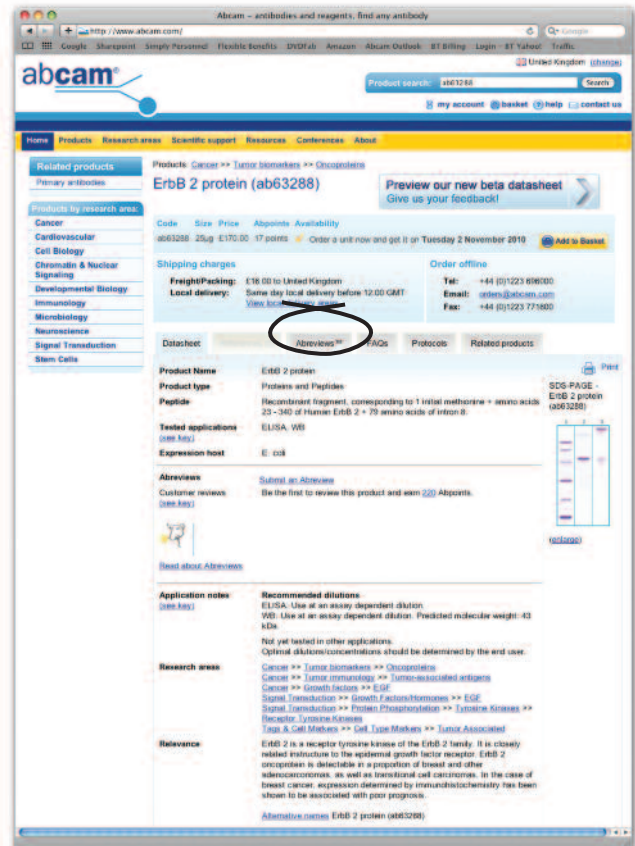
How do I submit an Abreview®?

On the datasheet for the protein go to the 'Abreviews' tab and then follow the link to 'Submit an Abreview'. Then all you need to do is select the application and sample species (remember - you can submit feedback for each application you have used and get 50 Abpoints for each one). Furthermore, you get 100 extra Abpoints for submitting an image!

After that you simply need to work through the form we have set out. We hope that this will make the whole process as easy as possible for you and also provide us with the maximum amount of information for scientists reading the Abreview®.

Short of time?

One new feature of Abreviews is that you can save the Abreview at any point and then return to complete it later. You can access all of your uncompleted Abreviews in the 'Your Account' section of our website.



Proteins product list | Cytokines and receptors

Cytokines act as humoral regulators which, either under normal or pathological conditions, modulate the functional activities of individual cells and tissues. Cytokines, produced widely throughout the body, also mediate interactions between cells directly and regulate processes taking place in the extracellular environment.

Chemokine family

Main function(s): leukocyte trafficking, recruitment and activation

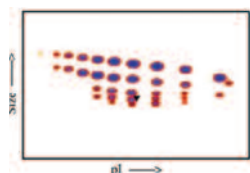
Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
CCL27 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50060
CCL28 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50075
CXCL11 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab50170
CXCL11 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73838
Cxcl14/BRAK protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50043
CXCL16 protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50175

Common beta chain receptor family

Main function(s): hematopoietic cell signaling

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
GM-CSF protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9668
GM-CSF protein	Hu	E. coli	Fragments	FuncS	ab48499
GM-CSF protein	Hu	E. coli	Full length	SDS-PAGE	ab51105
GM-CSF protein	Hu	Pichia Pastoris	Full length	FuncS, SDS-PAGE	ab73121
GM-CSF protein	Hrs	Yeast	Fragments	SDS-PAGE	ab87523
GM-CSF protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9742
GM-CSF protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab49904
GM-CSF protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab88382

Functional Studies - GM-CSF protein (Active) (ab88382)



Densitometry of protein isoforms visualised by 2-DE.

The densitometry scan demonstrates the purified human cell expressed protein exists in multiple isoforms, which differ according to their level of post-translational modification.

The triangle indicates the theoretical MWt and pI of the protein.

GM-CSF protein (His tag)	Hu	293 cells	Fragments	SDS-PAGE	ab50999
GM-CSF protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab54138
GM-CSF Receptor alpha protein (Fc Chimera Active)	Hu	293 cells	Full length	SDS-PAGE	ab83993
IL3 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9621
IL3 protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab83685
IL3 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89575
IL3 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab53339
IL3RA protein (Fc Chimera)	Hu	293 cells	Fragments	FuncS, SDS-PAGE	ab88358
IL3RB protein (Fc Chimera)	Hu	293 cells	Full length	SDS-PAGE	ab83919
IL5 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab56292
IL5 protein	Dog	Yeast	Full length	SDS-PAGE	ab90799
IL5 protein	Cow	Yeast	Full length	SDS-PAGE	ab93914

Scientific support: www.abcam.com/technical
Protein resources: www.abcam.com/proteins

Common beta chain receptor family (continued)

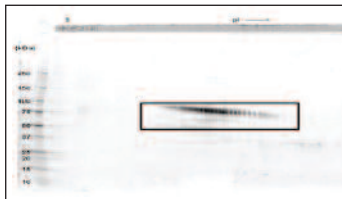
Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IL5 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9625
IL5 protein	Hrs	Yeast	Full length	SDS-PAGE	ab88009
IL5 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89580
IL5 protein (Active)	Rat	E. coli	Full length	SDS-PAGE	ab51963
IL5 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab73194
IL5 protein (Human)	Hu	293 cells	Full length	SDS-PAGE	ab83941
IL5RA protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab85983
IL5RA protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83828

Common gamma chain receptor family

Main function(s): T cell proliferation

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IL2 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9856
IL2 protein	Dog	Yeast	Full length	SDS-PAGE	ab92800
IL2 protein	Chk	Yeast	Full length	SDS-PAGE	ab87392
IL2 protein	Cat	Yeast	Full length	SDS-PAGE	ab87503
IL2 protein	Rb	Yeast	Full length	SDS-PAGE	ab93916
IL2 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9619
IL2 protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab644
IL2 protein (Active)	Hu	293 cells	Full length	SDS-PAGE	ab83684
IL2 protein (Active)	Hrs	Yeast	Full length	FuncS, SDS-PAGE	ab87680
IL2 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73598
IL2 protein (Active)	Cow	Yeast	Full length	FuncS, SDS-PAGE	ab87520
IL2 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab88277
IL2 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab53322
IL2 protein (His tag)	Ms	E. coli	Full length	SDS-PAGE	ab87016
IL2 Receptor alpha protein	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab56232
IL2 Receptor alpha protein	Hu	E. coli	Fragments	FuncS, MS, SDS-PAGE	ab50139
IL2 Receptor alpha protein (Fc Chimera Active)	Hu	293 cells	Fragments	SDS-PAGE	ab84071

SDS-PAGE - IL2 Receptor alpha protein (Fc Chimera Active) (ab84071)



A sample of ab84071 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel.

40µg protein loaded per lane; Deep Purple™ stained. Spot train indicates presence of multiple isoforms.

Spots within the spot train were cut from the gel and identified as IL2 Receptor alpha (Fc Chimera) by protein mass fingerprinting.

IL2 Receptor beta protein (Fc Chimera Active)	Hu	293 cells	Fragments	SDS-PAGE	ab84068
IL4 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9729
IL4 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9623
IL4 protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab83686
IL4 protein (Active)	Cow	Yeast	Full length	FuncS, SDS-PAGE	ab87679
IL4 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89578
IL4 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab9812

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Common gamma chain receptor family (continued)

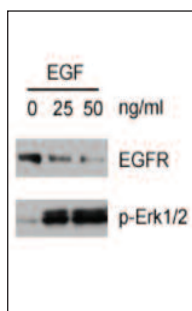
Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IL4 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73185
IL4 protein (Active)	Hu	CHO	Full length	FuncS, SDS-PAGE	ab73186
IL4 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab73188
IL4 protein (Active)	Pig	E. coli	Full length	FuncS, SDS-PAGE	ab73189
IL4 protein (Active)	Hrs	Yeast	Full length	CellAct, SDS-PAGE	ab87385
IL4 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab53342
IL4 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab73187
IL4 Receptor alpha protein	Hu	293 cells	Fragments	FuncS, SDS-PAGE	ab50023
IL4R alpha protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83756
IL7 protein	Hu	E. coli	Fragments	SDS-PAGE	ab53371
IL7 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9629
IL7 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89584
IL7 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab73488
IL7 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73489
IL7 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73201
IL7R alpha protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83827
IL9 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab51918
IL9 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50119
IL9 protein	Rat	E. coli	Full length	SDS-PAGE	ab91257
IL9 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89586
IL9 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73491
IL9 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73603
IL15 protein	Pig	Yeast	Full length	SDS-PAGE	ab87901
IL15 protein	Cow	Yeast	Full length	SDS-PAGE	ab87927
IL15 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab51986
IL15 protein	Hu	E. coli	Full length	SDS-PAGE	ab53505
IL15 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9583
IL15 protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab49905
IL15 protein (Active)	Hrs	Yeast	Full length	FuncS, SDS-PAGE	ab87902
IL15 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73500
IL15 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab73499
IL15 protein (His tag)	Ms	E. coli	Full length	SDS-PAGE	ab84338
IL21 protein	Hu	E. coli	Full length	SDS-PAGE	ab60287
IL21 protein	Cow	Yeast	Full length	SDS-PAGE	ab87467
IL21 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73250
IL21 protein (Mouse)	Ms	E. coli	Full length	SDS-PAGE	ab93054

EGF family

Main function(s): mitogenesis and differentiation of mesenchymal and epithelial cells

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
EGF protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9863
EGF protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab50240
EGF protein	Hu	E. coli	Full length	SDS-PAGE	ab51082
EGF protein	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab55483
EGF protein (Active)	Hu	E. coli	Full length	CellAct, SDS-PAGE, WB	ab9697

WB - EGF protein (Active) (ab9697)



Source

Recombinant full length (human)

Tested Applications

CellAct, SDS-PAGE, WB

Average Abreviews® Rating



All lanes : EGF protein (Active) (ab9697) was used at a concentration of 0, 25 or 50ng/ml

Phospho-p44/42 and MAPK (Erk 1/2) primary antibodies were used at a 1/1,000 dilution. An anti-rabbit HRP conjugated secondary antibody was used at a 1/10,000 dilution.

Lane 1 : Whole cell lysate of human skin fibroblasts starved overnight in serum-free medium

Lane 2 : Whole cell lysate of human skin fibroblasts starved overnight in serum-free medium and then incubated for 30 min with 25 ng/ml active EGF

Lane 3 : Whole cell lysate of human skin fibroblasts starved overnight in serum-free medium and then incubated for 30 min with 50 ng/ml active EGF

EGF protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab72994
EGF protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE, WB	ab91371
EGFR protein	Hu	Baculovirus	Fragments	SDS-PAGE	ab68104
EGFR protein (Active)	Hu	Baculovirus	Fragments	ELISA, Inhib, WB	ab68900
EGFR protein (Active)	Hu	Baculovirus	Fragments	FuncS, WB	ab89746
EGFR protein (Fc Chimera Active)	Hu	293 cells	Fragments	FuncS, SDS-PAGE	ab84002
EGFR protein (Tagged)	Hu	E. coli	Full length	ELISA, Inhib, WB	ab38026
EGFR protein (Tagged)	Hu	Baculovirus	Fragments	FuncS	ab61264
ErbB 2 protein	Hu	E. coli	Fragments	ELISA, WB	ab63288
ErbB 2 protein	Hu	E. coli	Fragments	ELISA, Inhib, SDS-PAGE, WB	ab40048
ErbB 2 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60866
ErbB 3 protein (Tagged)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab73634
ErbB 4 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab85602
ErbB 4 protein (Tagged)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab61640
TGF alpha protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9587

FGF family

Main function(s): angiogenesis, cell growth, pattern formation, embryonic development, metabolic regulation, cell migration, neurotrophic effects and tissue repair

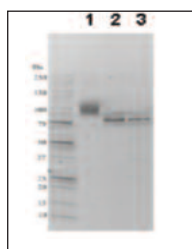
Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
FGF basic protein (Active)	Hu	E. coli	Full length	CellAct, SDS-PAGE	ab9596
FGF basic protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab61845
FGF basic protein (Active)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab73134
FGF basic protein (Active)	Cow	E. coli	Full length	FuncS, SDS-PAGE	ab73238
FGF basic protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab80215
FGF basic protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab88270
FGF basic protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab88394
FGF basic protein (His tag)	Hu	Baculovirus	Full length	FuncS	ab82116
FGF4 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50131
FGF5 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50229

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FGF family (continued)

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
FGF6 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50130
FGF8 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50128
FGF9 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9745
FGF9 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50034
FGF9 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73212
FGF9 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab78476
FGF10 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9989
FGF10 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73196
FGF12 protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab79244
FGF16 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9865
FGF-17 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9991
FGF19 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50132
FGF19 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab55524
FGF19 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab73213
FGF20 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50022
FGF21 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab54141
FGF21 protein	Ms	E. coli	Full length	ELISA, WB	ab63277
FGF21 protein (His tag)	Ms	E. coli	Full length	ELISA, SDS-PAGE, WB	ab64004
FGF22 protein	Hu	E. coli	Full length	SDS-PAGE	ab51793
FGFR1 alpha protein (Fc Chimera Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab55758
FGFR1 alpha protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab84000

SDS-PAGE - FGFR1 alpha protein (Fc Chimera) (ab84000)



1D SDS-PAGE of ab84000 before and after treatment with glycosidases to remove oligosaccharides.

Lane 1: ab84000

Lane 2: ab84000 treated with PNGase F to remove potential N-linked glycans

Lane 3: ab84000 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.
10 µg protein was loaded per lane; Gel was stained with Deep Purple™.

FGFR1 Oncogene Partner protein (His tag)	Hu	E. coli	Fragments	ELISA, SDS-PAGE, WB	ab80035
FGFR1 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60853
FGFR1 protein (Fc Chimera Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab73508
FGFR2 protein (Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab73854
FGFR2 protein (Active)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab80368
FGFR2 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab89755
FGFR2a + Fc Fragment protein (Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab55759
FGFR3 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60857
FGFR3 protein (Active)	Hu	Baculovirus	Full length	SDS-PAGE	ab73871
FGFR3a + Fc Fragment protein (Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab55760
FGFR4 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab89754
FGFR4 protein (Fc Chimera)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55761
FGFR4 protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83999

IL1 ligands and IL1R family

Main function(s): inflammation and host defense

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IL1 alpha protein	Cow	Yeast	Fragments	SDS-PAGE	ab87390
IL1 alpha protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9615
IL1 alpha protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9725
IL1 alpha protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab9877
IL1 alpha protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73567
IL1 alpha protein (Active)	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab73570
IL1 alpha protein (Active)	Rat	E. coli	Fragments	FuncS, SDS-PAGE	ab73572
IL1 alpha protein (Active)	Pig	E. coli	Fragments	FuncS, SDS-PAGE	ab73573
IL1 alpha protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab88276
IL1 alpha protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab73569
IL1 alpha protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab53665
IL1 beta protein	Pig	E. coli	Full length	FuncS, SDS-PAGE	ab60255
IL1 beta protein	Cat	Yeast	Full length	SDS-PAGE	ab87389
IL1 beta protein	Dog	Yeast	Full length	SDS-PAGE	ab87391
IL1 beta protein	Trky	Yeast	Fragments	SDS-PAGE	ab93084
IL1 beta protein	Cow	Yeast	Full length	SDS-PAGE	ab88013
IL1 beta protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9617
IL1 beta protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9723
IL1 beta protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab9788
IL1 beta protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab73577
IL1 beta protein (Active)	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab73588
IL1 beta protein (Active)	Rat	E. coli	Fragments	FuncS, SDS-PAGE	ab73589
IL1 beta protein (Active)	Hrs	Yeast	Full length	FuncS, SDS-PAGE	ab87459
IL1 beta protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab73581
IL1 beta protein (His tag)	Ms	E. coli	Full length	SDS-PAGE	ab78839
IL1 beta protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab53666
IL1 Receptor I protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83575
IL18 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab73224
IL18 protein (Active)	Chk	Yeast	Full length	FuncS, SDS-PAGE	ab87525
IL18 protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab53332
IL33 protein	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab69516
IL33 protein	Hu	E. coli	Fragments	SDS-PAGE	ab72893
IL33 protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab82121
IL33 protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab82836
IL33 protein (His tag)	Hu	E. coli	Fragments	WB	ab82840

IL6 family

Main function(s): activation of the signal transducing receptor protein, glycoprotein 130

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
G-CSF protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9752
G-CSF protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9692
G-CSF protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab51298
G-CSF protein (Active)	Hu	CHO	Full length	FuncS, SDS-PAGE	ab73371
G-CSF protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab83995
G-CSF protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab88272
G-CSF protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab54137
GCSF Receptor protein (Fc Chimera Active)	Hu	293 cells	Fragments	FuncS, SDS-PAGE	ab83994
IL11 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9553
IL11 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab69654
IL11 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73620
IL31 protein	Hu	E. coli	Fragments	SDS-PAGE	ab50150
IL6 protein	Cow	Yeast	Full length	SDS-PAGE	ab87933

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IL6 family (continued)

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IL6 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9731
IL6 protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab9771
IL6 protein	Pig	Yeast	Full length	SDS-PAGE	ab93913
IL6 protein	Hu	E. coli	Full length	FuncS, Neut, SDS-PAGE	ab9627
IL6 protein	Dog	Yeast	Full length	SDS-PAGE	ab88007
IL6 protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab83748
IL6 protein (Active)	Hrs	Yeast	Full length	FuncS, SDS-PAGE	ab87934
IL6 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89582
IL6 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73197
IL6 protein (Active)	Hu	CHO	Full length	FuncS, SDS-PAGE	ab73198
IL6 protein (Active)	Ms	E. coli	Full length	SDS-PAGE	ab73199
IL6 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab73200
IL6 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab53327
IL6R protein	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab50082
IL6R protein	Hu	E. coli	Fragments	SDS-PAGE	ab53370

IL10/Interferon family

Main function(s): host defense mechanisms

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IFN gamma Receptor beta protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83988
IFNAR2 protein (Active)	Hu	Endosperm tissue of barley grain	Fragments	FuncS, SDS-PAGE	ab88273
IFNAR2 protein (Fc Chimera Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab83680
IFNE1 protein (Active)	Shp	E. coli	Full length	SDS-PAGE	ab73378
IFNGR1 protein (Fc Chimera Active)	Hu	293 cells	Fragments	SDS-PAGE	ab83990
IFNW1 protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab94351
IL10 protein	Hu	E. coli	Fragments	SDS-PAGE	ab53502
IL10 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab9613
IL10 protein	Hu	293 cells	Full length	SDS-PAGE	ab84147
IL10 protein	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab9736
IL10 protein	Rat	E. coli	Fragments	FuncS, SDS-PAGE	ab9970
IL10 protein (Active)	Hu	CHO	Full length	FuncS, SDS-PAGE	ab73607
IL10 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73609
IL10 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73611
IL10 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab73612
IL10 protein (Active)	Pig	E. coli	Full length	FuncS, SDS-PAGE	ab73614
IL10 protein (Active)	Chk	Yeast	Full length	FuncS, SDS-PAGE	ab87526
IL19 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab51987
IL19 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73282
IL20 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89672
IL20 protein (Active)	Ms	E. coli	Full length	SDS-PAGE	ab51977
IL20 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73330
IL20 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab49819
IL22 protein	Ms	E. coli	Full length	SDS-PAGE	ab51988
IL22 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab49821
IL22 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89673
IL22 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab84083
IL24 protein (Active)	Hu	Yeast	Full length	FuncS, SDS-PAGE	ab73192
IL28A protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50037
IL28A protein	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab50172
IL29 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50032

IL17 family

Main function(s): induction of IL6, IL8 and GCSF production in fibroblasts, enhancement of surface expression of ICAM 1 in fibroblasts, activation of NF kappaB and costimulation of T cell proliferation

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
IL17 protein	Cow	Yeast	Full length	SDS-PAGE	ab87905
IL17 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab50162
IL17 protein	Pig	Yeast	Full length	SDS-PAGE	ab92802
IL17 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9567
IL17 protein (Active)	Rat	E. coli	Full length	SDS-PAGE	ab78597
IL17 protein (Active)	Hu	293 cells	Full length	SDS-PAGE	ab83769
IL17 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73202
IL17 protein (His tag)	Hu	E. coli	Full length	MS, SDS-PAGE	ab40044
IL17 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab82830
IL17 protein (Ready to use SDS-Page sample)	Hu	E. coli	Full length	SDS-PAGE, WB	ab82831
IL17B protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50161
IL17D protein	Hu	E. coli	Fragments	SDS-PAGE	ab50158
IL17E protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50145
IL17F protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50157
IL17F protein	Ms	E. coli	Full length	SDS-PAGE	ab63229
IL17F protein	Hu	E. coli	Full length	SDS-PAGE	ab78475
IL17F protein (Active)	Hu	293 cells	Full length	SDS-PAGE	ab85600

TGFbeta superfamily

Main function(s): tissue differentiation, morphogenesis, proliferation and migration

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
Activin A Receptor Type IB protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55682
Activin Receptor Type IA protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab84539
Activin Receptor Type IA protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83922
BMP2 protein	Hu	E. coli	Fragments	CellAct, SDS-PAGE	ab50099
BMP2 protein	Hu	E. coli	Full length	SDS-PAGE	ab87065
BMP3 protein (Active)	Hu	293 cells	Full length	FuncS, HPLC, SDS-PAGE	ab97412
BMP4 protein	Hu	E. coli	Full length	SDS-PAGE	ab51998
BMP4 protein	Hu	E. coli	Full length	SDS-PAGE	ab87063
BMP4 protein (MBP)	Hu	E. coli	Full length	ELISA, SDS-PAGE, WB	ab92855
BMP5 protein	Hu	E. coli	Full length	SDS-PAGE	ab87627
BMP6 protein	Hu	E. coli	Full length	SDS-PAGE	ab51760
BMP7 protein	Hu	CHO	Fragments	FuncS, SDS-PAGE	ab50100
BMP7 protein	Hu	E. coli	Full length	SDS-PAGE	ab55315
BMP7 protein	Hu	293 cells	Full length	SDS-PAGE	ab83921
BMP7 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab87055
BMP9 protein	Hu	CHO	Fragments	SDS-PAGE	ab94350
BMP11 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50159
BMPR1A protein (His tag)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55202
GDF3 protein	Hu	E. coli	Fragments	FuncS, Inhib, SDS-PAGE	ab50061
GDF 5 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab55329
GDF 5 protein	Hu	E. coli	Full length	SDS-PAGE	ab52315
GDF 5 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab86692
GDF6 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50230
GDF8 / Myostatin protein	Hu	E. coli	Fragments	FuncS, Inhib, SDS-PAGE	ab50097
GDF8 / Myostatin protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73251
GDF8 / Myostatin protein (His tag)	Hu	E. coli	Full length	ELISA, WB	ab73281
GDF8 / Myostatin protein (Propeptide domain)	Hu	E. coli	Fragments	ELISA, WB	ab63300
GDF10 protein	Hu	E. coli	Full length	SDS-PAGE	ab86694
GDF15 protein	Hu	Cell culture	Full length	FuncS, SDS-PAGE	ab50077
GDF15 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab89235
GDNF protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9790

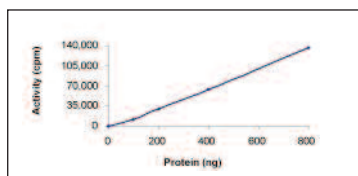
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TGFbeta superfamily (continued)

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
GDNF protein	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab56286
GDNF protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73450
TGF alpha protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9587
TGF beta 1 protein	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab50036
TGF beta 1 protein	Hu	E. coli	Fragments	SDS-PAGE	ab51281
TGF beta 1 protein (Active)	Hu	CHO	Full length	FuncS, SDS-PAGE	ab50038
TGF beta 1 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab82991
TGF beta 1 protein (His tag)	Hu	E. coli	Full length	WB	ab82992
TGF beta 1 protein (Tagged)	Hu	E. coli	Fragments	ELISA, Inhib, WB	ab75964
TGF beta 2 protein	Hu	BTI-Tn-5B1-4 cells	Full length	FuncS, SDS-PAGE	ab629
TGF beta 2 protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab84070
TGF beta 3 protein	Hu	E. coli	Fragments	ELISA, Inhib, WB	ab75565
TGF beta 3 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab52313
TGF beta Receptor I protein (Tagged)	Hu	Baculovirus	Fragments	SDS-PAGE	ab70837
TGF beta Receptor II protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83578
TGF beta Receptor II protein (Tagged)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab63173

Functional Studies - TGF beta Receptor II protein (Tagged) (ab63173)



The specific activity of TGF β 2 was determined to be 7 nmol/min/mg as per activity assay protocol in a kinase assay.

TGFBI protein	Hu	E. coli	Fragments	SDS-PAGE	ab86218
TGFBI protein	Hu	E. coli	Fragments	SDS-PAGE	ab73698
TGFBI protein	Hu	E. coli	Fragments	SDS-PAGE	ab86989

Proteins product list | Growth factors and receptors

Growth factors are known for their ability to enhance cell proliferation across tissue types. They regulate angiogenesis, cell differentiation and neurite outgrowth amongst other processes.

EGF family

Main function(s): mitogenesis and differentiation of mesenchymal and epithelial cells.

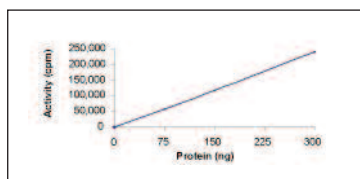
Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
EGF protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9863
EGF protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab50240
EGF protein	Hu	E. coli	Full length	SDS-PAGE	ab51082
EGF protein	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab55483
EGF protein (Active)	Hu	E. coli	Full length	CellAct, SDS-PAGE, WB	ab9697
EGF protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab72994
EGF protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE, WB	ab91371
EGFR protein	Hu	Baculovirus	Fragments	SDS-PAGE	ab68104
EGFR protein (Active)	Hu	Baculovirus	Fragments	ELISA, Inhib, WB	ab68900
EGFR protein (Active)	Hu	Baculovirus	Fragments	FuncS, WB	ab89746
EGFR protein (Fc Chimera Active)	Hu	293 cells	Fragments	FuncS, SDS-PAGE	ab84002
EGFR protein (Tagged)	Hu	E. coli	Full length	ELISA, Inhib, WB	ab38026
EGFR protein (Tagged)	Hu	Baculovirus	Fragments	FuncS	ab61264
ErbB 2 protein	Hu	E. coli	Fragments	ELISA, WB	ab63288
ErbB 2 protein	Hu	E. coli	Fragments	ELISA, Inhib, SDS-PAGE, WB	ab40048
ErbB 2 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60866
ErbB 3 protein (Tagged)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab73634
ErbB 4 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab85602
ErbB 4 protein (Tagged)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab61640
TGF alpha protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9587

Eph/Ephrin

Main function(s): mediating repulsive cell-cell interaction

Protein name	Species	expression system	Format	Applications	Datasheet www.abcam.com/...
Eph receptor A1 protein (Tagged)	Ms	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55900

Functional Studies - Eph receptor A1 protein (Tagged) (ab55900)



The specific activity of EPHA1 was determined to be 32 nmol/min/mg as per activity assay protocol in a kinase assay.

Eph receptor A3 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab84576
Eph receptor A4 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab84575
Eph receptor B1 protein (Active)	Ms	Baculovirus	Fragments	SDS-PAGE	ab56257
Eph receptor B2 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60851

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Eph/Ephrin (continued)

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
Eph receptor B2 protein (His tag)	Hu	Baculovirus	Fragments	Inhib	ab42607
Eph receptor B3 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab51409
Eph receptor B4 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab85713
Eph receptor B4 protein (His tag)	Hu	Baculovirus	Fragments	Inhib	ab42608
Ephrin A1 protein (Human)	Hu	Sc	Full length	SDS-PAGE	ab88269
Ephrin A1 protein (Tagged)	Hu	E. coli	Full length	ELISA, Inhib, WB	ab38036
Ephrin A4 protein (Tagged)	Hu	E. coli	Full length	ELISA, Inhib, WB	ab38037
Ephrin B protein (Tagged)	Hu	E. coli	Full length	ELISA, Inhib, SDS-PAGE, WB	ab38038
Ephrin B2 protein (Fc Chimera His Tag)	Hu	293 cells	Fragments	ELISA, SDS-PAGE, WB	ab92862
Ephrin B3 protein (Tagged)	Hu	E. coli	Full length	ELISA, Inhib, WB	ab38039

FGF family

Main function(s): angiogenesis, cell growth, pattern formation, embryonic development, metabolic regulation, cell migration, neurotrophic effects and tissue repair

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
FGF basic protein (Active)	Hu	E. coli	Full length	CellAct, SDS-PAGE	ab9596
FGF basic protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab61845
FGF basic protein (Active)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab73134
FGF basic protein (Active)	Cow	E. coli	Full length	FuncS, SDS-PAGE	ab73238
FGF basic protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab80215
FGF basic protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab88270
FGF basic protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab88394
FGF basic protein (His tag)	Hu	Baculovirus	Full length	FuncS	ab82116
FGF4 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50131
FGF5 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50229
FGF6 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50130
FGF8 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50128
FGF9 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9745
FGF9 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50034
FGF9 protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73212
FGF9 protein (Active)	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab78476
FGF10 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9989
FGF10 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73196
FGF12 protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab79244
FGF16 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9865
FGF-17 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9991
FGF19 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50132
FGF19 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab55524
FGF19 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab73213
FGF20 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50022
FGF21 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab54141
FGF21 protein	Ms	E. coli	Full length	ELISA, WB	ab63277
FGF21 protein (His tag)	Ms	E. coli	Full length	ELISA, SDS-PAGE, WB	ab64004
FGF22 protein	Hu	E. coli	Full length	SDS-PAGE	ab51793
FGFR1 alpha protein (Fc Chimera Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab55758

FGF family (continued)

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
FGFR1 alpha protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab84000
FGFR1 Oncogene Partner protein (His tag)	Hu	E. coli	Fragments	ELISA, SDS-PAGE, WB	ab80035
FGFR1 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60853
FGFR1 protein (Fc Chimera Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab73508
FGFR2 protein (Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab73854
FGFR2 protein (Active)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab80368
FGFR2 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab89755
FGFR2a + Fc Fragment protein (Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab55759
FGFR3 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60857
FGFR3 protein (Active)	Hu	Baculovirus	Full length	SDS-PAGE	ab73871
FGFR3a + Fc Fragment protein (Active)	Hu	Baculovirus	Fragments	SDS-PAGE	ab55760
FGFR4 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab89754
FGFR4 protein (Fc Chimera)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55761
FGFR4 protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83999

Hedgehog family

Main function(s): autocatalytic processing

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
Dhh protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab78682
Sonic Hedgehog protein (Active)	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab75431
Sonic Hedgehog protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab82127
Sonic Hedgehog protein (Amino end active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab63216
Sonic Hedgehog protein (His tag)	Ms	E. coli	Fragments	SDS-PAGE	ab95307

IGF family

Main function(s): proliferation of muscle, bone, and cartilage tissue

Protein name	Species	expression system	Format	Applications	Datasheet www.abcam.com/...
IGF1 protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9861
IGF1 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9573
IGF1 protein (Active)	Gilthead Seabream	E. coli	Full length	FuncS, SDS-PAGE	ab73850
IGF1 protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab73455
IGF1 protein (Active)	Hu	E. coli	Fragments	FuncS	ab73457
IGF1 protein (Active)	Ms	E. coli	Full length	FuncS	ab73458

IGF1 protein (Active)	Rat	E. coli	Full length	FuncS	ab73459
IGF1 protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab88275
IGF1 protein (Human)	Hu	E. coli	Full length	SDS-PAGE	ab87177
IGF1 protein	Rat	E. coli	Full length	FuncS, SDS-PAGE	ab52006
IGF1 Receptor beta subunit protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab80349
IGF1 Receptor protein	Hu	E. coli	Fragments	ELISA, Inhib, SDS-PAGE, WB	ab83637
IGF1 Receptor protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab71657
IGF2 protein	Ms	E. coli	Full length	SDS-PAGE	ab58827
IGF2 protein	Trky	Yeast	Full length	SDS-PAGE	ab97703
IGF2 protein	Hu	E.coli	Full length	FuncS, SDS-PAGE	ab9575
IGF2 protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab73495
IGFBP1 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50216
IGFBP2 protein (Active)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab63223
IGFBP3 protein	Hu	E. coli	Fragments	Inhib, SDS-PAGE	ab49831
IGFBP3 protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab88368
IGFBP4 protein	Hu	BTI-Tn-5B1-4 Cells	Full length	FuncS, SDS-PAGE	ab69504
IGFBP5 protein	Hu	E. coli	Full length	FuncS, Inhib, SDS-PAGE	ab49835
IGFBP5 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73492
IGFBP6 protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab40515
IGFBP6 protein (His tag)	Hu	E. coli	Fragments	WB	ab73561
IGFBP7 protein	Hu	E. coli	Full length	SDS-PAGE	ab50195

TGFbeta superfamily

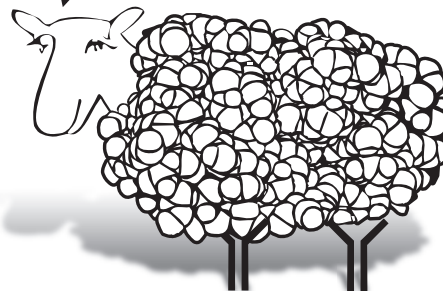
Main function(s): tissue differentiation, morphogenesis, proliferation and migration

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
Activin A Receptor Type IB protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55682
Activin Receptor Type IA protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE, WB	ab84539
Activin Receptor Type IA protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83922
BMP2 protein	Hu	E. coli	Fragments	CellAct, SDS-PAGE	ab50099
BMP2 protein	Hu	E. coli	Full length	SDS-PAGE	ab87065
BMP3 protein (Active)	Hu	293 cells	Full length	FuncS, HPLC, SDS-PAGE	ab97412
BMP4 protein	Hu	E. coli	Full length	SDS-PAGE	ab51998
BMP4 protein	Hu	E. coli	Full length	SDS-PAGE	ab87063
BMP4 protein (MBP)	Hu	E. coli	Full length	ELISA, SDS-PAGE, WB	ab92855
BMP5 protein	Hu	E. coli	Full length	SDS-PAGE	ab87627
BMP6 protein	Hu	E. coli	Full length	SDS-PAGE	ab51760
BMP7 protein	Hu	CHO	Fragments	FuncS, SDS-PAGE	ab50100
BMP7 protein	Hu	E. coli	Full length	SDS-PAGE	ab55315
BMP7 protein	Hu	293 cells	Full length	SDS-PAGE	ab83921
BMP7 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab87055
BMP9 protein	Hu	CHO	Fragments	SDS-PAGE	ab94350
BMP11 protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab50159
BMPR1A protein (His tag)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab55202
GDF3 protein	Hu	E. coli	Fragments	FuncS, Inhib, SDS-PAGE	ab50061
GDF 5 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab55329
GDF 5 protein	Hu	E. coli	Full length	SDS-PAGE	ab52315
GDF 5 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab86692
GDF6 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50230
GDF8 / Myostatin protein	Hu	E. coli	Fragments	FuncS, Inhib, SDS-PAGE	ab50097
GDF8 / Myostatin protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73251
GDF8 / Myostatin protein (His tag)	Hu	E. coli	Full length	ELISA, WB	ab73281
GDF8 / Myostatin protein (Propeptide domain)	Hu	E. coli	Fragments	ELISA, WB	ab63300

VEGF/PDGF family (continued)

Protein name	Species	Expression system	Format	Applications	Datasheet www.abcam.com/...
GDF10 protein	Hu	E. coli	Full length	SDS-PAGE	ab86694
GDF15 protein	Hu	Cell culture	Full length	FuncS, SDS-PAGE	ab50077
GDF15 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab89235
GDNF protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9790
GDNF protein	Ms	E. coli	Fragments	FuncS, SDS-PAGE	ab56286
GDNF protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73450
TGF alpha protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9587
TGF beta 1 protein	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab50036
TGF beta 1 protein	Hu	E. coli	Fragments	SDS-PAGE	ab51281
TGF beta 1 protein (Active)	Hu	CHO	Full length	FuncS, SDS-PAGE	ab50038
TGF beta 1 protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab82991
TGF beta 1 protein (His tag)	Hu	E. coli	Full length	WB	ab82992
TGF beta 1 protein (Tagged)	Hu	E. coli	Fragments	ELISA, Inhib, WB	ab75964
TGF beta 2 protein	Hu	BTI-Tn-5B1-4 cells	Full length	FuncS, SDS-PAGE	ab629
TGF beta 2 protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab84070
TGF beta 3 protein	Hu	E. coli	Fragments	ELISA, Inhib, WB	ab75565
TGF beta 3 protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab52313
TGF beta Receptor I protein (Tagged)	Hu	Baculovirus	Fragments	SDS-PAGE	ab70837
TGF beta Receptor II protein (Fc Chimera)	Hu	293 cells	Fragments	SDS-PAGE	ab83578
TGF beta Receptor II protein (Tagged)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab63173
TGFBI protein	Hu	E. coli	Fragments	SDS-PAGE	ab86218
TGFBI protein	Hu	E. coli	Fragments	SDS-PAGE	ab73698
TGFBI protein	Hu	E. coli	Fragments	SDS-PAGE	ab86989

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VEGF/PDGF family

Main function(s): tumor formation, embryonic development and wound healing

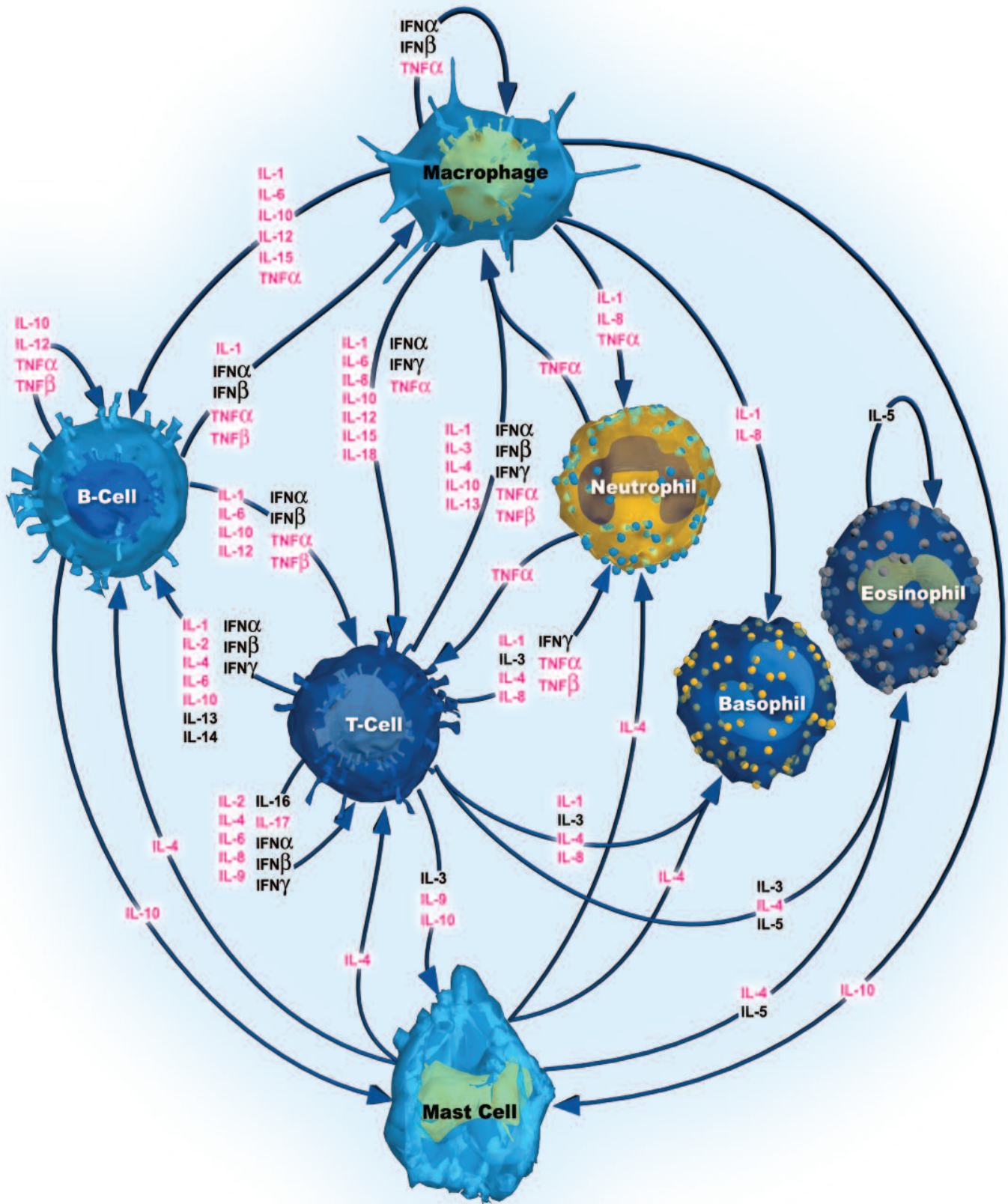
Protein name	Species	expression system	Format	Applications	Datasheet www.abcam.com/...
PDGF AA protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9702
PDGF AA protein	Hu	E. coli	Fragments	SDS-PAGE	ab53372
PDGF AA protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73226
PDGF AA protein (Active)	Ms	E. coli	Full length	SDS-PAGE	ab78590
PDGF AB protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab52112
PDGF AB protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab73228
PDGF BB protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab9706
PDGF BB protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab51925
PDGF BB protein (Active)	Hu	Sc	Full length	FuncS, SDS-PAGE	ab73229
PDGF BB protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab73233
PDGF BB protein (Active)	Ms	E. coli	Full length	SDS-PAGE	ab78593
PDGF BB protein (Active)	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab79746
PDGF BB protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab88356
PDGF BB protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89686
PDGF BB protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab53374
PDGF BB protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab73231
PDGF CC protein (Active)	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab84066
PDGF Receptor alpha protein (Active)	Ms	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60755
PDGF Receptor alpha protein (Active)	Hu	Baculovirus	Fragments	FuncS, WB☀☀☀☀☀	ab84797
PDGF Receptor beta protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab60833
PDGFAA + PDGFBB protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab61903
VEGF 121 protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab61872
VEGF 121 protein	Hu	E. coli	Full length	SDS-PAGE	ab86935
VEGF 121B protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab88348
VEGF 121B protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89573
VEGF 165A protein	Rat	E. coli	Full length	SDS-PAGE	ab51967
VEGF 165A protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab56620
VEGF 165A protein	Hu	E. coli	Fragments	FuncS, SDS-PAGE	ab61861
VEGF 165A protein (Active)	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab62134

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VEGF 165A protein (Active)	Hu	293 cells	Full length	FuncS, SDS-PAGE	ab83572
VEGF 165A protein (Active)	Hu	Endosperm tissue of barley grain	Full length	FuncS, SDS-PAGE	ab89574
VEGF protein	Hu	E. coli	Full length	CellAct, FuncS, SDS-PAGE	ab9571
VEGF protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab9954
VEGF protein	Hu	E. coli	Full length	FuncS, SDS-PAGE	ab50078
VEGF protein	Hu	Baculovirus	Full length	SDS-PAGE	ab53824
VEGF protein	Cow	Yeast	Full length	SDS-PAGE	ab88201
VEGF protein (Active)	Hu	CHO	Fragments	FuncS, SDS-PAGE	ab73277
VEGF protein (Active)	Ms	Baculovirus	Fragments	FuncS, SDS-PAGE	ab73279
VEGF protein (Active)	Rat	E. coli	Fragments	FuncS, SDS-PAGE	ab92846
VEGF protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab55566
VEGF Receptor 1 protein	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab54343
VEGF Receptor 1 protein	Hu	Baculovirus	Full length	FuncS, SDS-PAGE 	ab54346
VEGF Receptor 1 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab54344
VEGF Receptor 1 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab54345
VEGF Receptor 1 protein (Active)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE, WB	ab84771
VEGF Receptor 1 protein (Fc Chimera)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab54258
VEGF Receptor 1 protein (His tag)	Hu	Baculovirus	Full length	Inhib	ab42609
VEGF Receptor 1 protein (His tag)	Hu	E. coli	Fragments	SDS-PAGE	ab62948
VEGF Receptor 2 protein	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab54347
VEGF Receptor 2 protein (Fc Chimera)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab54259
VEGF Receptor 2 protein (Tagged)	Hu	Baculovirus	Full length	Inhib	ab42614
VEGF Receptor 3 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab73644
VEGF Receptor 3 protein (Active)	Hu	Baculovirus	Fragments	FuncS, SDS-PAGE	ab95247
VEGF Receptor 3 protein (Fc Chimera)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab54261
VEGF Receptor 3 protein (His tag)	Hu	Baculovirus	Full length	FuncS, SDS-PAGE	ab54260
VEGFB protein (His tag)	Hu	E. coli	Full length	SDS-PAGE	ab87052
VEGFC protein	Ms	E. coli	Full length	FuncS, SDS-PAGE	ab51947
VEGFC protein	Hu	E. coli	Full length	SDS-PAGE	ab51968
VEGFC protein	Hu	293 cells	Full length	SDS-PAGE	ab83573
VEGFC protein (His tag)	Rat	Baculovirus	Full length	SDS-PAGE	ab52146
VEGFE protein	Hu	Baculovirus	Fragments	SDS-PAGE	ab51001

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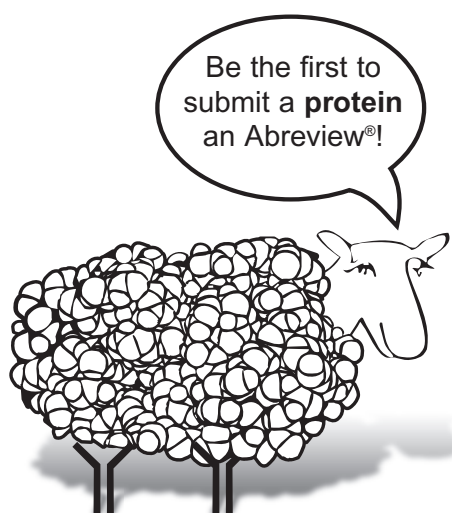
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