

EP clones for use in IHC pathology

Developed using RabMAb[®] technology

Get the most accurate and reliable results

How do you make EP clones?

To deliver EP clones for use in immunohisto-chemistry (IHC), we use our proprietary RabMAb® technology to generate rabbit monoclonal antibodies.

The basic principle for making a RabMAb® primary antibody is the same as for mouse monoclonals. We fuse proprietary rabbit fusion partner cells to rabbit B-cells to create rabbit hybridoma cells. We then screen to select for clones with the most specific and sensitive antigen recognition properties and characterize using a variety of methods.

What makes rabbit antibodies better than mouse antibodies?

In short: antigen diversity, high affinity, and high specificity.

Rabbits have a unique immune system capable of diverse epitope recognition that optimizes affinity more efficiently than mice and can be used to produce antibodies against antigens that are not immunogenic in mice. Rabbit monoclonal antibodies have a 10–100 times higher affinity for a target antigen than mouse monoclonal antibodies.

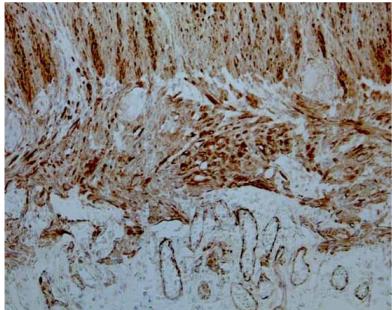
Rabbit antibodies are also better at distinguishing subtle differences, such as epitope variations like post translational modifications, mutations, and conformational changes, due to their larger and more diverse B-cell repertoire.

RabMAb® antibodies combine the best properties of monoclonal antibodies with the most desirable attributes of rabbit polyclonal antibodies.

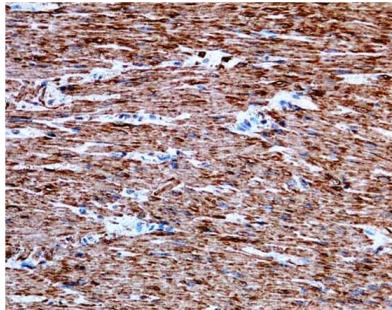
How can I use EP clones?

EP clones can be employed for research use only applications.

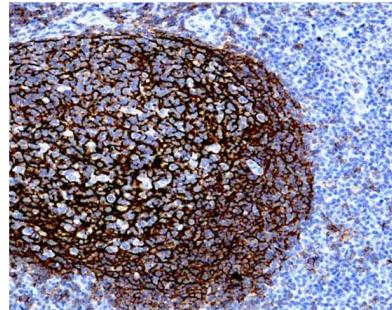
The most popular EP clones



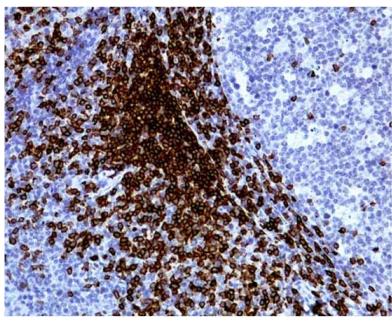
Caldesmon – EP19 (catalog #AC-0022RUOC). Smooth muscle stained with anti-human Caldesmon.



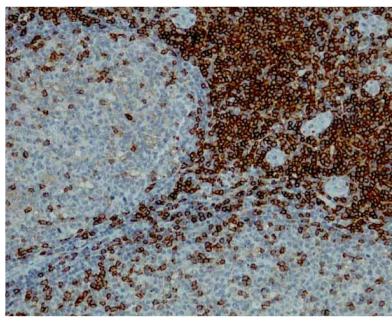
Calponin-1 – EP63 (catalog #AC-0060RUOC). Smooth muscle stained with anti-human Calponin-1.



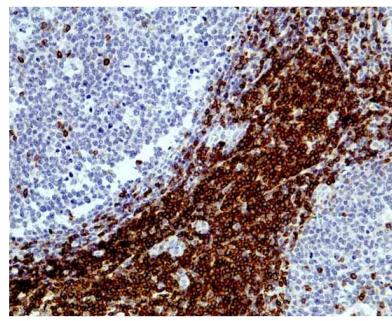
CD21 – EP64 (catalog #AC-0061RUOC). Tonsil stained with anti-human CD21.



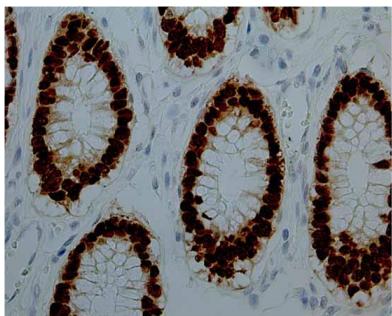
CD3 – EP41 (catalog #AC-0004RUOC). Tonsil stained with anti-human CD3.



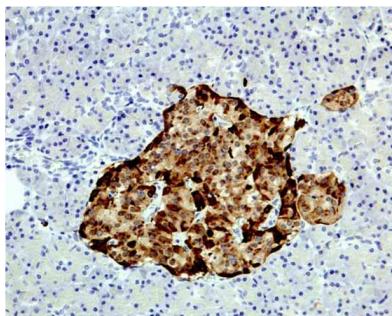
CD4 – EP204 (catalog #AC-0173RUOC). Tonsil stained with anti-human CD4.



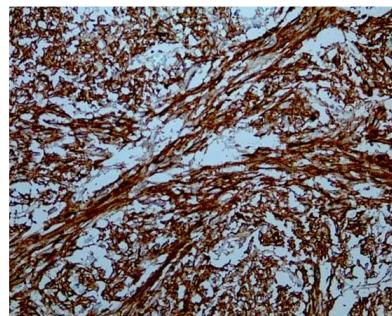
CD5 – EP77 (catalog #AC-0077RUOC). Tonsil stained with anti-human CD5.



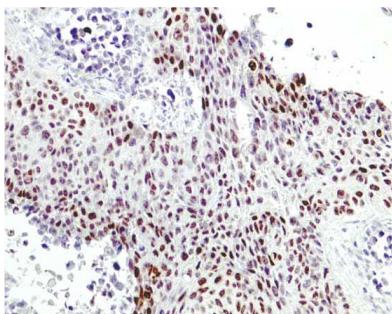
CDX-2 – EP25 (catalog #AC-0008RUOC). Colon stained with anti-human CDX2.



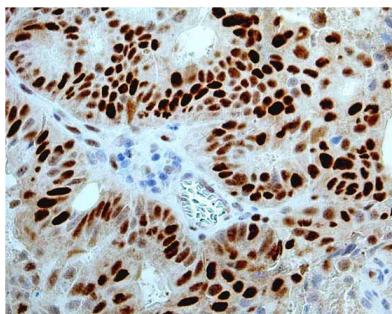
Chromogranin A – EP38 (catalog #AC-0037RUOC). Pancreas stained with anti-human Chromogranin A.



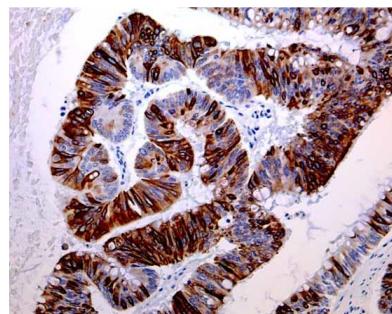
c-Kit (CD117) – EP10 (catalog #AC-0029RUOC). Gastrointestinal stromal tumor stained with anti-human c-Kit (CD117).



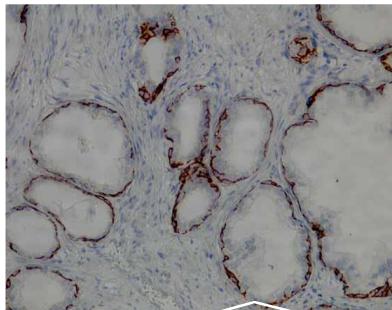
c-Myc – EP121 (catalog #AC-0116RUOC). Lung carcinoma stained with anti-human c-Myc.



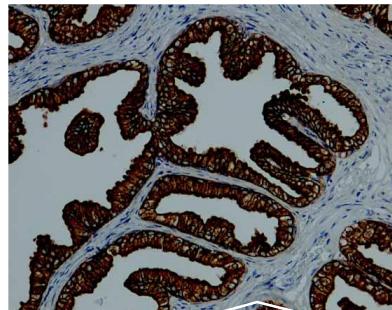
Cyclin D1 – EP12 (catalog #AC-0017RUOC). Colon carcinoma stained with anti-human Cyclin D1.



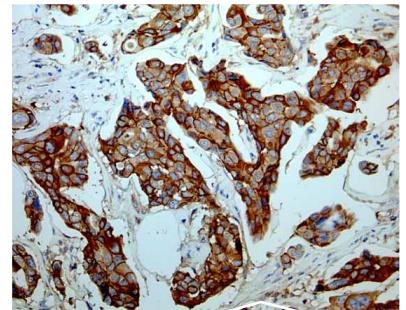
Cytokeratin 20 – EP235 (catalog #AC-0026RUOC). Colon carcinoma stained with anti-human CK20.



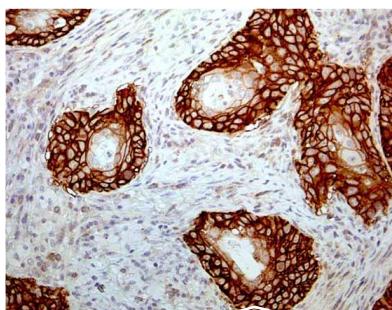
Cytokeratin 5 – EP24 (catalog #AC-0027RUOC). Prostate hyperplasia stained with anti-human Cytokeratin 5.



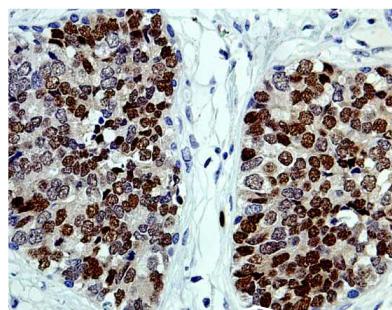
Cytokeratin 8 + 18 Cocktail – CK8:EP17; CK18: EP30 (catalog #AC-9002RUOC). Colon carcinoma stained with anti-human Cytokeratin 8 + 18 Cocktail.



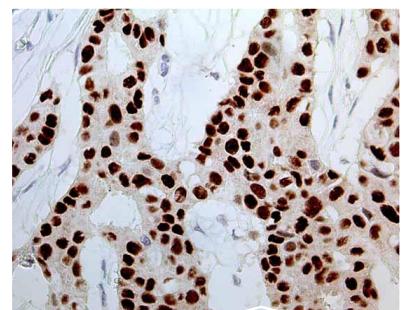
E-Cadherin – EP6 (catalog #AC-0003RUOC). Breast duct carcinoma stained with anti-human E-cadherin.



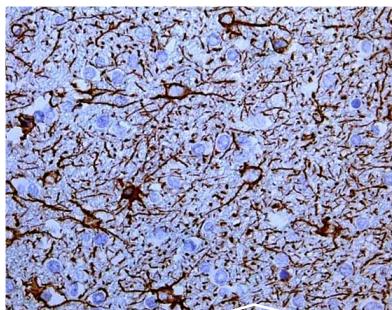
EGFR – EP22 (catalog #AC-0025RUOC). Squamous carcinoma stained with anti-human EGFR.



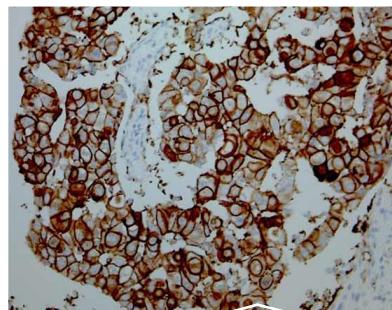
ERG – EP111 (catalog #AC-0105RUOC). Prostate carcinoma stained with anti-human ERG.



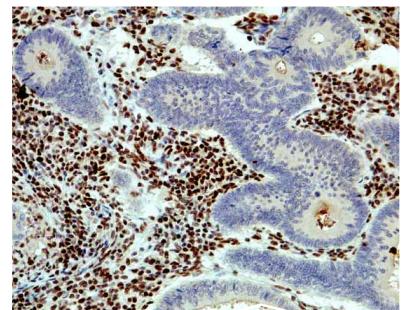
Estrogen Receptor Alpha (ER Alpha) – EP1 (catalog #AC-0015RUOC). Breast carcinoma stained with anti-human Estrogen Receptor Alpha (ER Alpha).



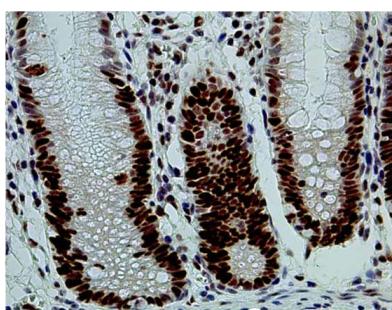
GFAP – EP13 (catalog #AC-0002RUOC). Brain stained with anti-human GFAP.



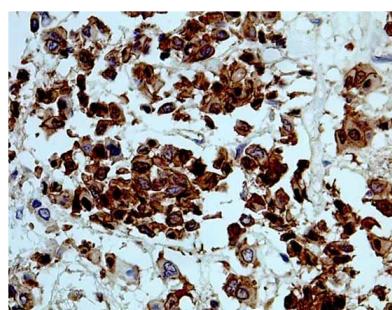
HER2/ErbB2 – EP3 (catalog #AC-0014RUOC). Breast carcinoma stained with anti-human HER2/ErbB2.



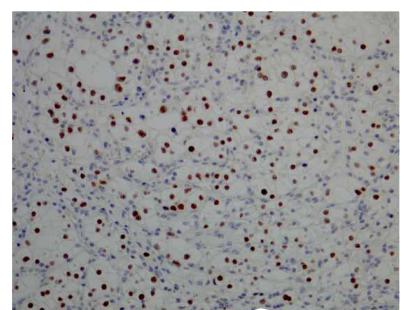
MSH2 – RED2 (catalog #AC-0211RUOC). Hereditary nonpolyposis colorectal carcinoma stained with anti-human MSH2.



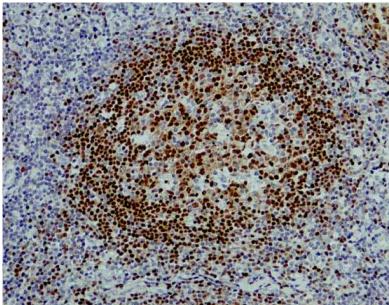
MSH6 – EP49 (catalog #AC-0047RUOC). Colon stained with anti-human MSH6.



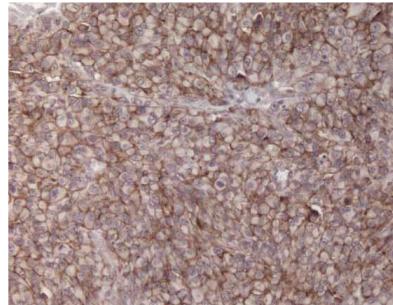
p120 Catenin – EP66 (catalog #AC-0063RUOC). Breast lobular carcinoma stained with anti-human p120 Catenin.



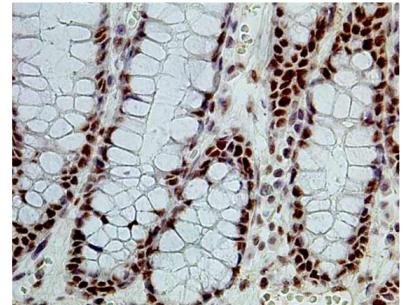
PAX2 – EP235 (catalog #AC-0236RUOC). Renal clear cell carcinoma stained with anti-human PAX2.



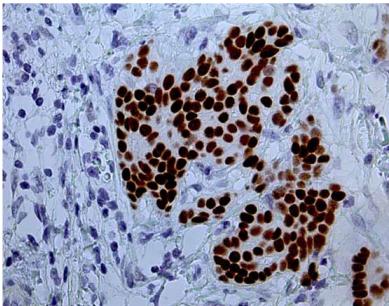
PAX5 – EP156 (catalog #AC-0158RUOC).
Tonsil stained with anti-human PAX5.



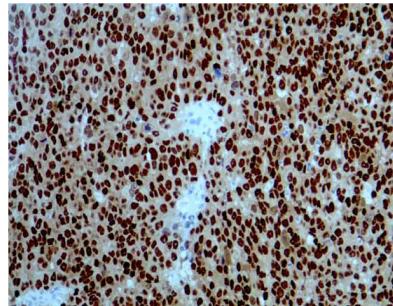
PD-L1 – 42975 (catalog #AC-0337RUOC).
Melanoma stained with anti-human PD-L1.



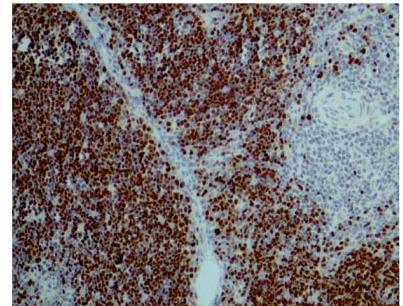
PMS2 – EP51 (catalog #AC-0049RUOC).
Colon stained with anti-human PMS2.



Progesterone Receptor – EP2 (catalog #AC-0028RUOC). Breast carcinoma
stained with anti-human Progesterone Receptor.



SOX10 – EP268 (catalog #AC-0237RUOC).
Melanoma stained with anti-human SOX10.



Terminal deoxynucleotidyl transferase (TdT)
– EP266 (catalog #AC-0226RUOC). Thymus
stained with anti-human Terminal
deoxynucleotidyl transferase (TdT).

We have over 350 EP clones to choose from

In addition to the top 30 most popular clones listed above, we have more than 350 EP clones that have been specifically developed for use in pathology laboratories for IHC staining.

You can find the complete list on the following pages:

EP clone list

Target	EP Clone ID	Catalog #	Target	EP Clone ID	Catalog #
4E-BP1	EP352	AC-0325RUOC	CD163	EP324	AC-0316RUOC
5T4	EP347	AC-0299RUOC	CD19	EP169	AC-0139RUOC
5T4	EP348	AC-0300RUOC	CD1a	EP80	AC-0078RUOC
A-1-Antichymo-trypsin	EP384	AC-0347RUOC	CD2	EP222	AC-0228RUOC
ACSL4	EP386	AC-0345RUOC	CD20 C-term	EP7	AC-0012RUOC
ACTH	EP390	AC-0362RUOC	CD205	EP176	AC-0140RUOC
AFP	EP209	AC-0166RUOC	CD21	EP64	AC-0061RUOC
Aldh1A1	EP168	AC-0136RUOC	CD23	EP75	AC-0076RUOC
ALK	EP302	AC-0285RUOC	CD248	EP383	AC-0349RUOC
Alpha-Actin (Smooth Muscle)	EP188	AC-0167RUOC	CD25	EP218	AC-0209RUOC
Androgen Receptor	EP120	AC-0071RUOC	CD3	EP41	AC-0004RUOC
Annexin VII	EP367	AC-0322RUOC	CD3 delta	EP177	AC-0201RUOC
Anterior Gradient 2 (AGR2)	EP329	AC-0286RUOC	CD30	EP154	AC-0141RUOC
ARD1	EP357	AC-0343RUOC	CD31	EP78	AC-0083RUOC
ARG-1	EP261	AC-0227RUOC	CD34	EP88	AC-0082RUOC
ARID1A (BAF250a)	EP303	AC-0275RUOC	CD35	EP197	AC-0172RUOC
ATM	EP327	AC-0287RUOC	CD38	EP135	AC-0133RUOC
Aurora B	EP136	AC-0196RUOC	CD4	EP204	AC-0173RUOC
BAD	EP315	AC-0288RUOC	CD41/Integrin alpha 2b	EP178	AC-0174RUOC
Bcl-2	EP36	AC-0035RUOC	CD42b	EP409	AC-0336RUOC
Bcl-6	EP278	AC-0242RUOC	CD44	EP44	AC-0044RUOC
Bcl-x	EP94	AC-0098RUOC	CD45	EP68	AC-0065RUOC
Beclin-1	EP304	AC-0276RUOC	CD48	EP148	AC-0142RUOC
Beta-Catenin	EP35	AC-0034RUOC	CD5	EP77	AC-0077RUOC
BMI-1	EP199	AC-0168RUOC	CD5	RED1	AC-0261RUOC
BOB.1	EP114	AC-0114RUOC	CD53	EP179	AC-0176RUOC
C4d	EP272	AC-0260RUOC	CD61	EP65	AC-0062RUOC
CA 125	EP48	AC-0046RUOC	CD63	EP211	AC-0177RUOC
Cadherin-6	EP217	AC-0207RUOC	CD7	EP132	AC-0124RUOC
Calcitonin	EP92	AC-0092RUOC	CD71	EP232	AC-0245RUOC
Caldesmon	EP19	AC-0022RUOC	CD74	EP167	AC-0143RUOC
Calponin-1	EP63	AC-0060RUOC	CD79a	EP82	AC-0079RUOC
Carbonic Anhydrase 9	EP161	AC-0137RUOC	CD79b	EP214	AC-0204RUOC
Carbonic Anhydrase 9	EP161	AC-0137RUOC	CD8	EP334	AC-0301RUOC
Caspase-3	EP410	AC-0364RUOC	CD82	EP160	AC-0144RUOC
Cathepsin D	EP81	AC-0090RUOC	CD90	EP56	AC-0054RUOC
Caveolin-1	EP353	AC-0320RUOC	CD95	EP208	AC-0178RUOC
CD10	EP195	AC-0169RUOC	CD99	EP8	AC-0013RUOC
CD103	EP206	AC-0170RUOC	Cdk4	EP180	AC-0179RUOC
CD105	EP274	AC-0243RUOC	CDX-2	EP25	AC-0008RUOC
CD11b	EP45	AC-0043RUOC	CEA	EP216	AC-0203RUOC
CD11c	EP157	AC-0134RUOC	Chromogranin A	EP38	AC-0037RUOC
CD13	EP117	AC-0107RUOC	c-Kit/CD117	EP10	AC-0029RUOC
CD138	EP201	AC-0171RUOC	Claudin 8	EP305	AC-0289RUOC
CD14	EP128	AC-0123RUOC	Claudin-1	EP420	AC-0351RUOC
CD146	EP54	AC-0052RUOC	Claudin-4	EP417	AC-0352RUOC
CD15	EP273	AC-0244RUOC	Claudin-5	EP224	AC-0212RUOC
CD16	EP364	AC-0332RUOC	Claudin-7	EP399	AC-0365RUOC
CD163	EP152	AC-0138RUOC	Clusterin/Apolipoprotein J	EP181	AC-0180RUOC

EP clone list cont.

Target	EP Clone ID	Catalog #	Target	EP Clone ID	Catalog #
c-Myc	EP121	AC-0116RUOC	FOXP3	EP340	AC-0304RUOC
Cohesin subunit SA2 (STAG2)	EP373	AC-0339RUOC	FSH	EP257	AC-0233RUOC
COL1A1	EP236	AC-0223RUOC	Galectin-3	EP412	AC-0361RUOC
COUP-TFII	EP406	AC-0353RUOC	GATA3	EP368	AC-0324RUOC
COX-2	EP293	AC-0273RUOC	GCDPF-15	EP95	AC-0085RUOC
CPS1 (Hep Par-1)	EP265	AC-0229RUOC	Geminin	EP355	AC-0327RUOC
CRX (CORD2)	EP323	AC-0302RUOC	GFAP	EP13	AC-0002RUOC
CTAG1B (NY-ESO-1)	EP311	AC-0278RUOC	Glucagon	EP74	AC-0074RUOC
CXCR4 (Fusin, CD184)	EP394	AC-0366RUOC	Glut1	EP141	AC-0132RUOC
Cyclin D1	EP12	AC-0017RUOC	Glycophorin A	EP213	AC-0202RUOC
Cyclin E1	EP126	AC-0120RUOC	Granzyme B	EP230	AC-0213RUOC
Cytokeratin 10	EP97	AC-0086RUOC	GRB7	EP308	AC-0279RUOC
Cytokeratin 13	EP69	AC-0066RUOC	GRIA2	EP387	AC-0344RUOC
Cytokeratin 14	EP61	AC-0058RUOC	Growth Hormone	EP267	AC-0234RUOC
Cytokeratin 15	EP14	AC-0018RUOC	H. Pylori	EP279	AC-0247RUOC
Cytokeratin 16	EP297	AC-0290RUOC	HE4	EP370	AC-0326RUOC
Cytokeratin 17	EP98	AC-0081RUOC	Hemoglobin alpha	EP124	AC-0121RUOC
Cytokeratin 18	EP30	AC-0001RUOC	HER2 / ErbB2	EP3	AC-0014RUOC
Cytokeratin 19	EP72	AC-0073RUOC	HER2 / ErbB2 Phospho (pY877)	EP123	AC-0146RUOC
Cytokeratin 20	EP23	AC-0026RUOC	hGAL (GCET2)	EP316	AC-0292RUOC
Cytokeratin 4	EP4	AC-0011RUOC	HIF-1 alpha	EP118	AC-0108RUOC
Cytokeratin 5	EP24	AC-0027RUOC	Histone H3 Phospho (pT3)	EP233	AC-0250RUOC
Cytokeratin 5	EP42	AC-0181RUOC	HLA-Dra	EP96	AC-0088RUOC
Cytokeratin 6	EP67	AC-0064RUOC	HLA-DRB1	EP191	AC-0183RUOC
Cytokeratin 7	EP16	AC-0020RUOC	HMGA2	EP398	AC-0369RUOC
Cytokeratin 8	EP17	AC-0007RUOC	HNF4 alpha P1	EP366	AC-0334RUOC
DAX-1 (NR0B1)	EP358	AC-0330RUOC	hnRNP K	EP330	AC-0305RUOC
Desmin	EP15	AC-0019RUOC	HSP70	EP377	AC-0341RUOC
Desmoglein 3	EP306	AC-0291RUOC	Human Placental Lactogen (HPL)	EP241	AC-0215RUOC
DMRT1	EP264	AC-0230RUOC	Iba-1 (AIF1)	EP289	AC-0265RUOC
DNMT1	EP269	AC-0231RUOC	IgA (Heavy Chain)	EP170	AC-0147RUOC
DOG1	EP332	AC-0303RUOC	IgD	EP173	AC-0184RUOC
E2F4	EP252	AC-0225RUOC	IgG4	EP138	AC-0148RUOC
E-Cadherin	EP6	AC-0003RUOC	IMP-3	EP286	AC-0266RUOC
EGFR	EP22	AC-0025RUOC	Inhibin Alpha	EP378	AC-0315RUOC
EGFR L858R	EP344	AC-0317RUOC	INPP4B	EP328	AC-0306RUOC
EGFR Phospho (pY1068)	EP11	AC-0016RUOC	Insulin	EP125	AC-0119RUOC
elf-4E	EP280	AC-0262RUOC	Islet 1	EP283	AC-0293RUOC
Ep-CAM	EP155	AC-0145RUOC	Kappa Light Chain	EP171	AC-0149RUOC
ER Alpha	EP1	AC-0015RUOC	Kappa Light Chain (Polyclonal)	N/A	AC-0069RUOC
ERCC1	EP219	AC-0206RUOC	Ki-67	EP5	AC-0009RUOC
ERG	EP111	AC-0105RUOC	KIM-1 (HAVcr-1)	EP309	AC-0280RUOC
Estrogen Receptor	EP220	AC-0232RUOC	Ksp-cadherin	EP296	AC-0277RUOC
Factor XIII A	EP292	AC-0263RUOC	L1CAM	EP411	AC-0354RUOC
Fascin	EP116	AC-0112RUOC	LAG-3 (CD223)	EP294	AC-0294RUOC
FOXA1	EP277	AC-0246RUOC	Lambda Light Chain	EP172	AC-0150RUOC
FOXM1	EP372	AC-0323RUOC	Lambda Light Chain (Polyclonal)	N/A	AC-0068RUOC
FOXO1	EP290	AC-0264RUOC	Langerin (CD207)	EP349	AC-0328RUOC
FOXP1	EP137	AC-0129RUOC	LAT1 (SLC7A5)	EP393	AC-0367RUOC

EP clone list cont.

Target	EP Clone ID	Catalog #	Target	EP Clone ID	Catalog #
LEF-1	EP310	AC-0281RUOC	OCT-4	EP143	AC-0128RUOC
LI-Cadherin	EP86	AC-0095RUOC	OLIG2	EP112	AC-0106RUOC
LIN28	EP150	AC-0151RUOC	p120 Catenin	EP66	AC-0063RUOC
LSP1	EP164	AC-0152RUOC	p21	EP147	AC-0156RUOC
Lysozyme	EP134	AC-0126RUOC	p27/Kip1	EP104	AC-0109RUOC
MAGEA3	EP408	AC-0355RUOC	p53	EP9	AC-0010RUOC
MAGEC2 (CT10)	EP405	AC-0356RUOC	p57/Kip2	EP183	AC-0205RUOC
Mammaglobin	EP249	AC-0219RUOC	p62 (Sequestosome-1)	EP396	AC-0368RUOC
MART-1	EP43	AC-0041RUOC	p84 (THOC1)	EP320	AC-0309RUOC
MCM2	EP40	AC-0039RUOC	Parvalbumin	EP300	AC-0282RUOC
MCM3	EP202	AC-0187RUOC	PAX2	EP235	AC-0236RUOC
MCM5	EP84	AC-0094RUOC	PAX5	EP156	AC-0158RUOC
MCM6	EP375	AC-0340RUOC	PAX6	EP341	AC-0310RUOC
MDR-1	EP271	AC-0251RUOC	PAX8	EP298	AC-0296RUOC
Mesothelin	EP140	AC-0130RUOC	PAX8	EP331	AC-0338RUOC
MFAP5	EP382	AC-0348RUOC	Paxillin	EP89	AC-0096RUOC
MGMT	EP337	AC-0307RUOC	PBRM1 (BAF180)	EP342	AC-0333RUOC
MMP7	EP388	AC-0346RUOC	PCNA	EP91	AC-0087RUOC
MMP9	EP127	AC-0122RUOC	PD-1 (PDCD1)	EP239	AC-0255RUOC
MRE11	EP318	AC-0295RUOC	PDCD4	EP102	AC-0100RUOC
MRP8 / S100A8	EP90	AC-0097RUOC	PD-L1	28-8	AC-0337RUOC
MSH2	RED2	AC-0211RUOC	PD-L1	EP415	AC-0357RUOC
MSH6	EP49	AC-0047RUOC	PDX1	EP139	AC-0131RUOC
MSMB (PSP94)	EP203	AC-0198RUOC	PHOX2B	EP312	AC-0283RUOC
MUC1	EP85	AC-0091RUOC	PLAP	EP194	AC-0192RUOC
MUC2	EP187	AC-0188RUOC	PMEL17	EP240	AC-0216RUOC
MUC4	EP256	AC-0235RUOC	PMS2	EP51	AC-0049RUOC
MUC5AC	EP362	AC-0329RUOC	PODXL	EP248	AC-0221RUOC
MUM1	EP190	AC-0186RUOC	Progesterone Receptor	EP2	AC-0028RUOC
Myelin	EP207	AC-0189RUOC	Prolactin	EP193	AC-0159RUOC
Myeloperoxidase	EP151	AC-0153RUOC	Prostate-Specific Antigen (PSA)	EP109	AC-0070RUOC
MyoD1	EP212	AC-0190RUOC	Prostatic Acid Phosphatase	EP53	AC-0051RUOC
Myogenin	EP162	AC-0154RUOC	Prostein (P501S, SLC45A3)	EP381	AC-0335RUOC
Myoglobin	EP87	AC-0084RUOC	PSMA	EP192	AC-0160RUOC
Myosin Heavy Chain 11	EP166	AC-0155RUOC	RAD51	EP189	AC-0193RUOC
Myosin Light Chain 2	EP99	AC-0099RUOC	ROS1	EP282	AC-0271RUOC
Nanog	EP225	AC-0319RUOC	RRM1	EP242	AC-0217RUOC
Napsin A	EP205	AC-0191RUOC	RUNX2	EP351	AC-0321RUOC
NDRG1	EP200	AC-0199RUOC	S100 beta	EP32	AC-0031RUOC
Nestin	EP287	AC-0252RUOC	S100A1	EP184	AC-0194RUOC
Neurofilament	EP79	AC-0075RUOC	S100A4	EP360	AC-0331RUOC
Neutrophil Elastase	EP223	AC-0253RUOC	S100A6	EP313	AC-0297RUOC
NGFR	EP31	AC-0030RUOC	S100A9	EP185	AC-0195RUOC
NKX2.2	EP336	AC-0308RUOC	S100P	EP186	AC-0161RUOC
NKX3.1	EP356	AC-0314RUOC	S100P	EP234	AC-0208RUOC
NM23	EP276	AC-0254RUOC	SALL4	EP299	AC-0298RUOC
NSE	EP319	AC-0350RUOC	SATB2	EP281	AC-0268RUOC
OCT-2	EP115	AC-0111RUOC	SCGN	EP237	AC-0224RUOC
OCT-2	EP284	AC-0274RUOC	SDHB	EP288	AC-0256RUOC

EP clone list cont.

Target	EP Clone ID	Catalog #	Target	EP Clone ID	Catalog #
Serum Amyloid A	EP335	AC-0311RUOC	Thrombomodulin	EP175	AC-0175RUOC
Somatostatin	EP130	AC-0127RUOC	Thyroglobulin	EP250	AC-0220RUOC
Somatostatin receptor type 2	EP149	AC-0162RUOC	TIA1	EP243	AC-0218RUOC
SOX10	EP268	AC-0237RUOC	TIMP-1	EP389	AC-0359RUOC
SOX2	EP103	AC-0101RUOC	Topoisomerase II alpha	EP93	AC-0089RUOC
SOX9	EP317	AC-0284RUOC	TPO	EP159	AC-0164RUOC
Spectrin	EP251	AC-0238RUOC	TRAcP	EP338	AC-0312RUOC
SPINK1 (TATI, PSTI)	EP401	AC-0363RUOC	Transcription Factor PU.1	EP18	AC-0021RUOC
Splicing Factor 3B subunit 3 (SF3B3)	EP404	AC-0358RUOC	Troponin I, Cardiac Muscle (Troponin 1)	EP73	AC-0093RUOC
STAR	EP226	AC-0239RUOC	Troponin T, Cardiac Muscle (TNNT2)	EP108	AC-0104RUOC
STAT6	EP325	AC-0318RUOC	TRPS1	EP392	AC-0360RUOC
Stathmin	EP247	AC-0257RUOC	Tryptase	EP259	AC-0214RUOC
Survivin	EP119	AC-0113RUOC	TSH	EP254	AC-0222RUOC
Synaptophysin	EP158	AC-0163RUOC	TTF-1	EP229	AC-0258RUOC
TBX21 (T-bet)	EP263	AC-0240RUOC	Tyrosinase	EP270	AC-0259RUOC
TCL1	EP105	AC-0110RUOC	Uroplakin III	EP321	AC-0313RUOC
TdT	EP266	AC-0226RUOC	Villin-1	EP163	AC-0165RUOC
TFE3	EP285	AC-0269RUOC	Vimentin	EP21	AC-0024RUOC
TFF1	EP47	AC-0045RUOC	Wilms' Tumor	EP122	AC-0115RUOC
TFF3	EP107	AC-0103RUOC	ZAP-70	EP52	AC-0050RUOC

We're here to help

If you need any further information about the EP clones we have available, please don't hesitate to get in touch.

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