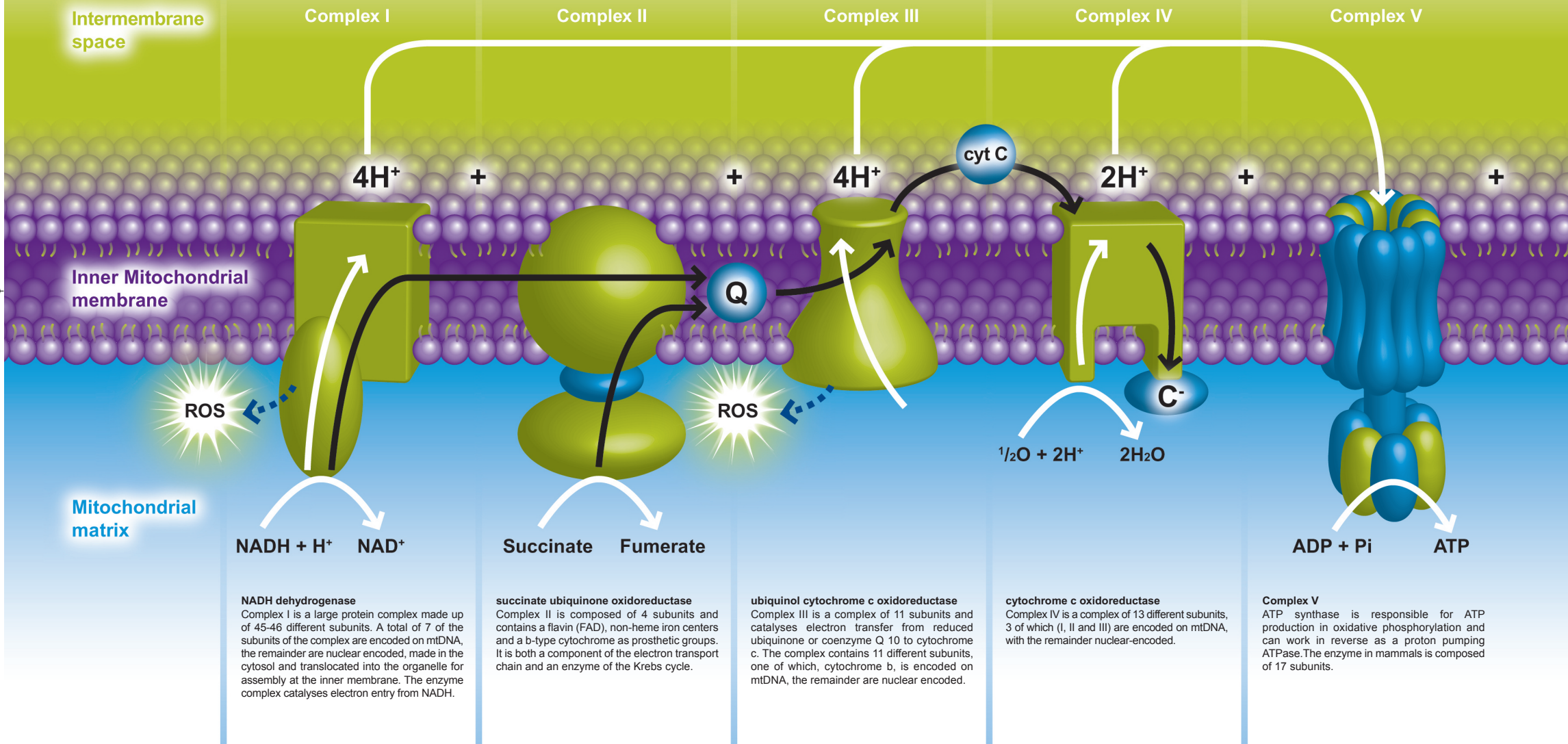


Oxidative Phosphorylation

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













































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Oxidative Phosphorylation

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Oxidative phosphorylation (OXPHOS) produces more than 95% of a cell's energy in the form of ATP under normal physiological conditions. This process involves five different protein complexes, NADH-ubiquinone oxidoreductase (Complex I), succinate ubiquinone oxidoreductase (Complex II), ubiquinone cytochrome c oxidoreductase (Complex III), cytochrome c oxidase (Complex IV) and the ATP synthase (Complex V). The overall process of oxidative phosphorylation is tightly controlled by transcriptional regulation at the level of DNA, translational effects via RNA levels and stability, by substrate feedback inhibition, and by post-translational modifications including phosphorylation and acetylation.

Product	Clonality	Applications	Species	Product code	Product	Clonality	Applications	Species	Product code
Complex I NADH dehydrogenase (ubiquinone) 1 alpha subcomplex					ATP Synthase Complex V (continued)				
Complex I Immunocapture antibody [18G12BC2] 	M	IP, ICC, In-Cell ELISA, Flow Cyt	Ms, Rat, Cow, Hu	ab109798	ATP5A [7H10BD4F9] 	M	WB, ICC/IF, Flow Cyt	Ms, Rat, Cow, Hu, Zebrafish	ab110273
Complex I subunit 8 kDa [17C8E4E11] 	M	WB	Ms, Rat, Cow, Hu	ab110245	ATPB [3D5] 	M	WB, ICC/IF, IP, Flow Cyt, IHC-P	Ms, Rat, Cow, Hu, C.elegans, Mk	ab14730
NDUFA9 [20C11B11B11] 	M	IHC-P, WB	Ms, Rat, Cow, Hu	ab14713	ATP5H [7F9BG1] 	M	WB, ICC/IF, Flow Cyt	Ms, Rat, Cow, Hu	ab110275
NDUFB4 	M	WB, ICC/IF, Flow Cyt	Rat, Cow, Hu	ab110243	ATP5O [4C11C10D12] 	M	ICC/IF, WB, Flow Cyt, IHC-P	Cow, Hu	ab110276
NDUFB6 	P	WB	Ms, Rat, Cow, Hu	ab110244	ATPase Inhibitory Factor 1 [5E2D7] 	M	WB, ELISA	Ms, Rat, Cow, Hu	ab110277
NDUFB8 [20E9DH10C12] 	M	WB, IHC-Fr	Ms, Rat, Cow, Hu	ab110242	ATP5A [15H4C4] 	M	WB, ICC, IHC-P, Flow Cyt	Ms, Rat, Cow, Hu, C.elegans, Fruit Fly, Mk	ab14748
NDUFS2 [7A12BE5AD5] 	M	WB, ICC/IF	Hu	ab110249	ATP5J	M	WB, Flow Cyt, ICC/IF	Hu	ab110279
NDUFS3 [17D95] 	M	WB, Flow Cyt	Ms, Rat, Cow, Hu, C.elegans, Fruit fly, Zebrafish	ab14711	ATPB [7E3F2] 	M	WB	Ms, Rat, Cow, Hu, E.coli	ab110280
NDUFS3 [3F9DD2] 	M	IHC-Glut, Flow Cyt, ICC/IF, IHC-P, WB	Ms, Rat, Cow, Hu, C.elegans, Zebrafish	ab110246	NNT [8B4BB10] 	-	IP, ICC/IF, In-Cell ELISA, IHC-P, WB, Flow Cyt	Hu, Ms, Rat, Cow	ab110352
NDUFS4 [2C7CD4AG3] 	M	WB	Ms, Rat, Cow, Hu	ab87399	MADD [2B11AE8] 	M	IP, WB, ICC/IF, In-Cell ELISA, Flow Cyt	Ms, Rat, Hu	ab110316
Complex II Succinate-ubiquinone oxidoreductase					Cytochrome C [37BA11] 				
Complex II subunit 30 kDa Ip 	M	Flow Cyt, IHC-Fr, ICC, IHC-P, WB, ICC/IF	Ms, Rat, Hamster, Cow, Hu, Zebrafish	ab14714		M	WB, ICC/IF, Flow Cyt, In-Cell ELISA	Ms, Rat, Cow, Hu, C.elegans	ab110325
Complex II subunit 70 kDa Fp [2E3GC12FB2AE2] 	M	ICC, IHC-Fr, Flow Cyt, WB, IHC-P	Ms, Rat, Cow, Dog, Hu, C.elegans	ab14715	Kits				
Complex II WB Antibody Cocktail 	M	WB	Ms, Rat, Cow, Hu	ab110410	Applications/Tests				
Complex II capture [4H12BG12AG2] 	M	IP	Ms, Cow, Hu	ab109865	Species				
Complex III ubiquinol cytochrome c oxidoreductase					Product Code				
Complex III capture [11A51H12] 	M	IP	Ms, Cow, Hu	ab109862	MitoProfile® Total OXPHOS Human WB Antibody Cocktail	WB		Hu	ab110411
Ubiquinol-Cytochrome C Reductase Core Protein I [16D10AD9AH5] 	M	WB	Ms, Rat, Cow, Hu	ab110252	Complex I Immunocapture Kit	IP		Hu, Ms, Rat, Cow	ab109711
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex II Immunocapture Kit	IP		Hu, Ms, Rat, Cow	ab109799
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex III Immunocapture Kit	IP		Hu, Ms, Rat, Cow	ab109800
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex IV Immunocapture Kit	IP		Hu, Ms, Rat, Cow	ab109801
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex IV Rodent Immunocapture Kit	IP		Ms, Rat	ab109860
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	ATP synthase Immunocapture Kit	IP		Hu, Ms, Rat, Cow	ab109715
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Cytochrome c Protein Quantity Microplate Assay Kit	1 x 96		Hu, Ms, Rat, Cow	ab110172
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Enzyme Activity Microplate Assay Kit	1 x 96		Hu, Ms, Rat, Cow	ab109721
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex II Enzyme Activity Microplate Assay Kit	1 x 96		Hu, Ms, Rat, Cow	ab109908
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex IV Human Enzyme Activity Microplate Assay Kit	1 x 96		Hu, Cow	ab109909
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	ATP synthase Enzyme Activity Microplate Assay Kit	1 x 96		Hu, Rat, Cow	ab109714
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	ATP synthase Specific Activity Microplate Assay Kit	FuncS		Hu, Rat, Cow	ab109716
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Enzyme Activity Dipstick Assay Kit	FuncS		Hu, Ms, Rat, Cow	ab109720
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex IV Rodent Enzyme Activity Dipstick Assay Kit	FuncS		Hu, Cow	ab109878
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex IV Human Enzyme Activity Dipstick Assay Kit	FuncS		Hu, Cow	ab109876
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Human Protein Quantity Dipstick Assay Kit	FuncS		Hu, Ms, Rat, Cow	ab109722
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Rodent Protein Quantity Dipstick Assay Kit	FuncS		Hu, Ms, Rat, Cow	ab109875
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Human Protein Quantity Dipstick Assay Kit	FuncS		Hu, Ms, Rat, Cow	ab109722
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Rodent Protein Quantity Dipstick Assay Kit	FuncS		Hu, Ms, Rat, Cow	ab109875
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex I Rodent Protein Quantity Dipstick Assay Kit	FuncS		Hu, Ms, Rat, Cow	ab109875
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Complex IV Human Protein Quantity Dipstick Assay Kit	FuncS		Hu, Cow	ab109877
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	Luminescent ATP Detection Assay Kit	FuncS		-	ab113849
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	JC1 - Mitochondrial Membrane Potential Assay Kit	FuncS		-	ab113850
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	DCFDA - Cellular Reactive Oxygen Species Detection Assay Kit	FuncS		-	ab113851
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745	TMRE—Mitochondrial Membrane Potential Assay Kit	FuncS		-	ab113852
UQCRC2 [13G12AF12BB11] 	M	Flow Cyt, IHC-P, WB, ICC	Ms, Rat, Cow, Hu	ab14745					
ATP Synthase Complex V									
ATP synthase Immunocapture antibody [12F4AD8AF8] 	M	IP	Ms, Cow, Hu	ab109867					

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