

Product datasheet for TA346921

COX4 (COX4I1) Mouse Monoclonal Antibody [Clone ID: 4D11-B3-E8]

Product data:

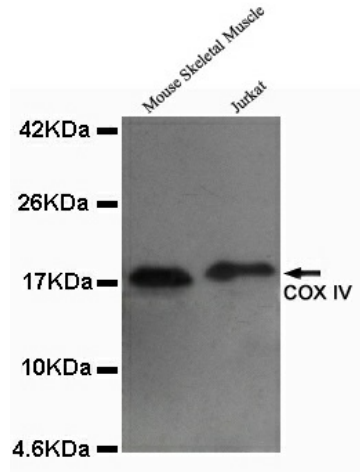
Product Type:	Primary Antibodies
Clone Name:	4D11-B3-E8
Applications:	FC, IF, IHC, IP, WB
Recommend Dilution:	WB: 1:1000, IF: 1:150, FC: 1:100
Reactivity:	Goat, Hamster, Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for COX IV antibody: A synthetic peptide corresponding to carboxyl terminal residues of human COX IV
Formulation:	Purified mouse monoclonal antibody in buffer containing 0.1M Tris-Glycine(pH 7.4,150 mM NaCl)with 0.02% sodium azide,0.1mg/mlBSA and 50% glycerol.
Purification:	Affinity purified
Predicted Protein Size:	17 kDa
Gene Name:	cytochrome c oxidase subunit 4I1
Database Link:	NP_001852 Entrez Gene 12857 Mouse Entrez Gene 29445 Rat Entrez Gene 1327 Human
Background:	Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain.It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane.The complex consists of 13 mitochondrial- and nuclear-encoded subunits.The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities.The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex.This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme.It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation,and shares a promoter with it. [provided by RefSeq,Jul 2008]
Synonyms:	COX4; COX4-1; COXIV; COX IV-1; COXIV-1
Protein Families:	Transmembrane



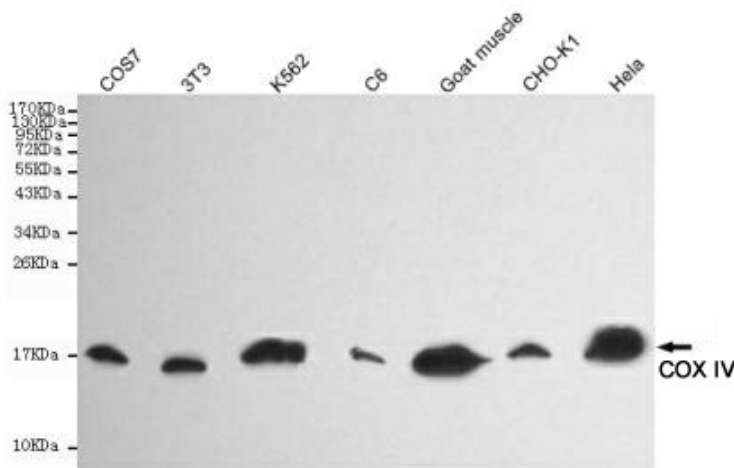
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Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

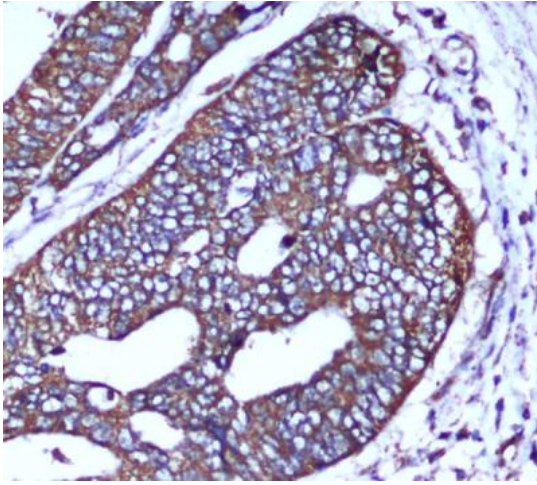
Product images:



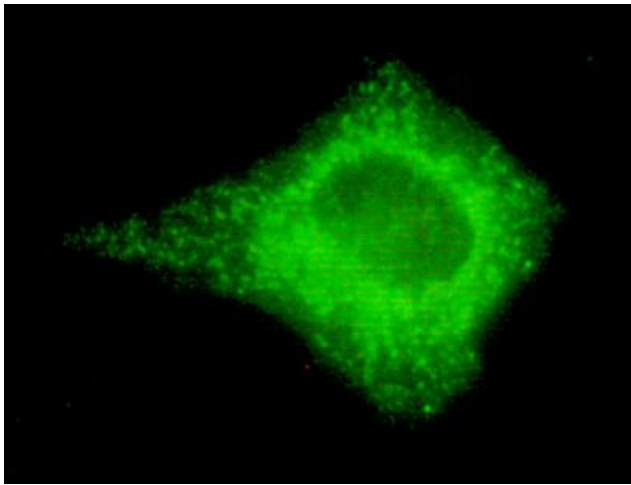
Western blot detection of COX IV in Mouse skeletal muscle and Jurkat lysates using COX IV mouse mAb (1:1000 diluted). Predicted band size: 17KDa. Observed band size: 17KDa.



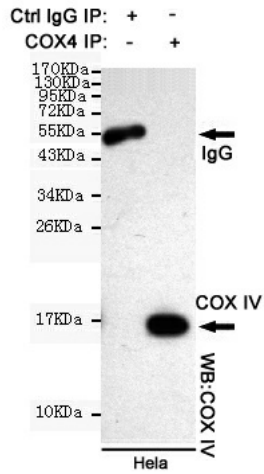
Western blot detection of COX IV in Goat muscle, CHO-k1, COS7, 3T3, HeLa, C6 and K562 cell lysates using COX IV mouse mAb (1:5000 diluted). Predicted band size: 17KDa. Observed band size: 17KDa.



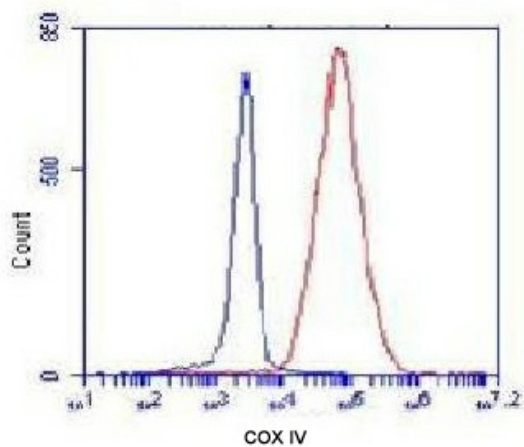
Immunohistochemical analysis of paraffin-embedded human colorectal carcinoma with COX IV Mouse mAb (4D11-B3-E8, 1:50 diluted), showing cytoplasm localization. A high pressure mediated antigen retrieval step was performed in citrate buffer (pH6.0).



Immunocytochemistry of HeLa cells using anti-COX IV mouse mAb diluted 1:150.



Immunoprecipitation analysis of HeLa cell lysates using COX IV mouse mAb.



Flow Cytometry analysis of K562 cells stained with COX4 (red, 1/100 dilution), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.