

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
Recommended Dilution:	WB: 1:1000, IF: 1:150, FC: 1:100
Reactivity:	Human, Monkey, Mouse, Rat, Hamster, Goat
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
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
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 P13073



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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:

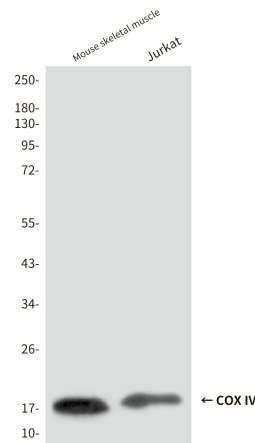
COX4; COX4-1; COXIV; COX IV-1; COXIV-1

Protein Families:

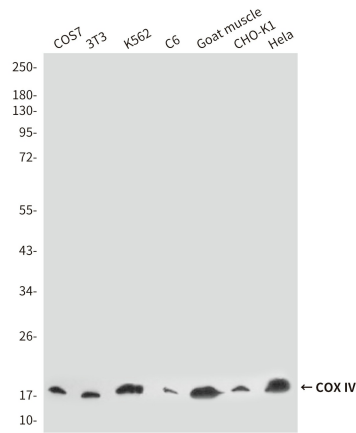
Transmembrane

Protein Pathways:

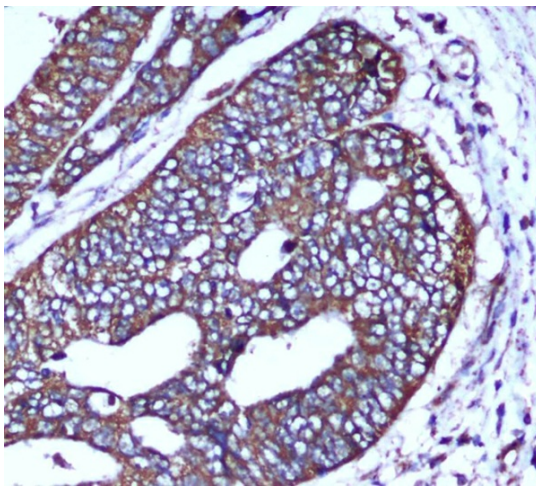
Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

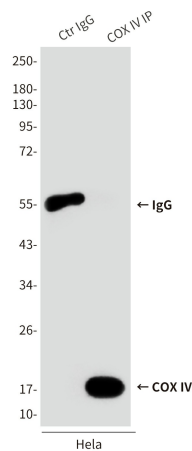
Western blot analysis of COX IV in mouse skeletal muscle and Jurkat lysates using COX IV antibody.



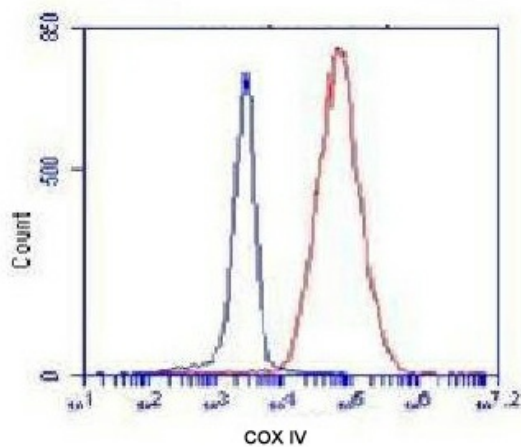
Western blot analysis of COX IV in Goat muscle, CHO-K1, COS7, 3T3, HeLa, C6 and K562 lysates using COX IV antibody.



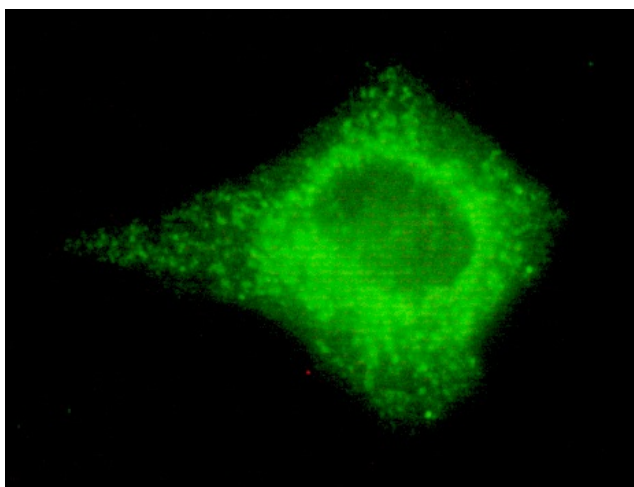
Immunohistochemistry analysis of paraffin-embedded Human colorectal carcinoma using COX IV antibody (4D11B3E8). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunoprecipitation analysis of COX IV (4D11) in HeLa lysates using COX IV antibody.



Flow Cytometry analysis of K562 stained with COX4 (red). Blue line histogram represents the isotype control, normal mouse IgG.



Immunocytochemistry analysis of COX IV in HeLa cells using COX IV antibody.