



COX4 rabbit pAb

Cat No.:ES2035

For research use only

Overview

Product Name	COX4 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human COX41. AA range:11-60
Specificity	COX4 Polyclonal Antibody detects endogenous levels of COX4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cytochrome c oxidase subunit 4 isoform 1 mitochondrial
Gene Name	COX4I1
Cellular localization	Mitochondrion inner membrane ; Single-pass membrane protein .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	17kD
Human Gene ID	1327
Human Swiss-Prot Number	P13073
Alternative Names	COX4I1; COX4; Cytochrome c oxidase subunit 4 isoform 1; mitochondrial; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit IV isoform 1; COX IV-1



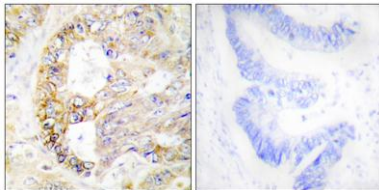


Background

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. Pseudogenes related to this gene are located on chromosomes



Western Blot analysis of various cells using COX4 Polyclonal Antibody

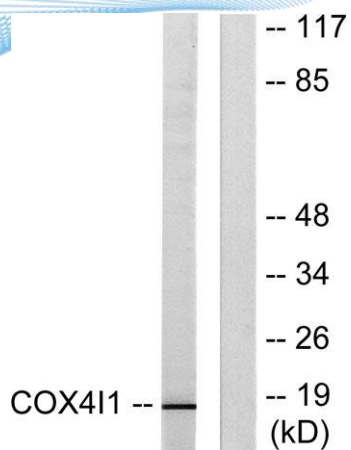


Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using COX41 Antibody. The picture on the right is blocked with the synthesized peptide.



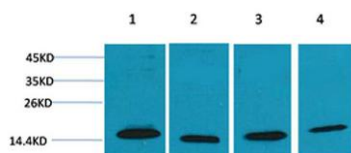


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Western blot analysis of lysates from A549 cells, using COX41 Antibody. The lane on the right is blocked with the synthesized peptide.

Western blot analysis of 1) HeLa, 2) 3T3, 3) Mouse Brain, 4) Rat Brain using COX4 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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