



COX4 Polyclonal Antibody

Catalog No	YP-Ab-02544
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	COX4I1
Immunogen	The antiserum was produced against synthesized peptide derived from human COX4I. 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.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	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.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	COX4I1;COX IV-1;COX4;Cytochrome c oxidase subunit 4 isoform 1; mitochondrial;COX IV;Cytochrome c oxidase subunit 4 isoform 1 mitochondrial; Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit IV isoform 1
Observed Band	17kD
Calculated Molecular Weight	17kD
Cell Pathway	Mitochondrion inner membrane ; Single-pass membrane protein .
Tissue Specificity	Ubiquitous.
Function	function:This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport., similarity:Belongs to the cytochrome c oxidase IV family.,tissue specificity:Ubiquitous.,
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

matters needing attention

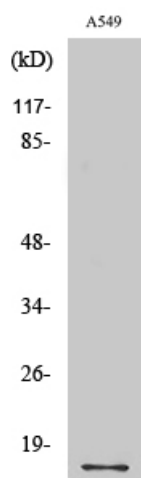
Avoid repeated freezing and thawing!

Usage suggestions

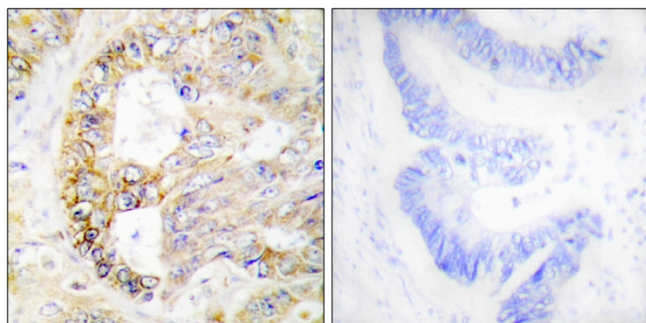
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



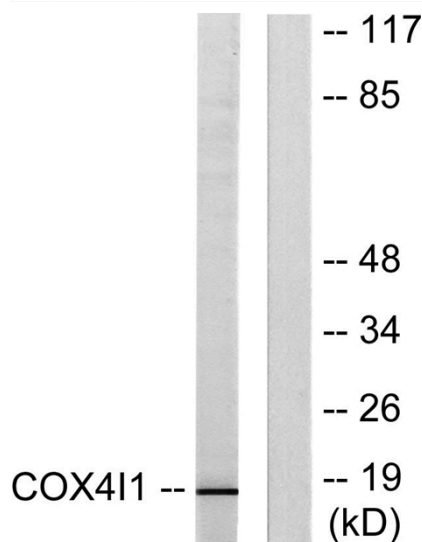
Products Images



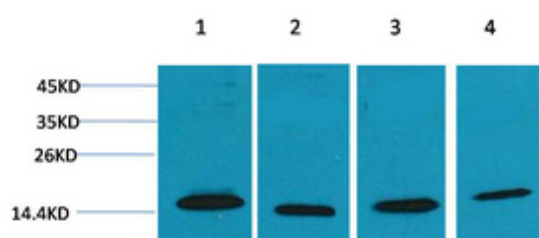
Western Blot analysis of various cells using COX4 Polyclonal Antibody



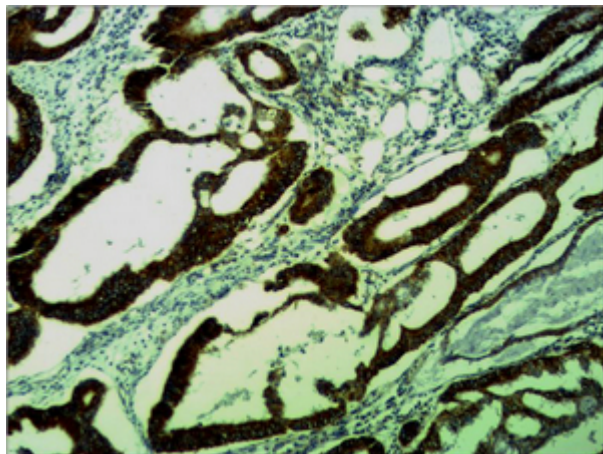
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using COX41 Antibody. The picture on the right is blocked with the synthesized peptide.



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



Immunohistochemical analysis of paraffin-embedded human Colon carcinoma using COX4 Polyclonal Antibody.