

Rabbit COX IV Polyclonal Antibody | anti-COX IV antibody

COX IV Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322100	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

COX IV; Polyclonal Antibody; COX IV Antibody; AL024441; COX 4; COX IV 1; COX IV-1; Cox4; COX41_HUMAN; Cox4a; COX4B; COX4I1; COX4I2; COX4L2; COXIV; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit 4 isoform 1 mitochondrial; Cytochrome c oxidase subunit 4 isoform 1; mitochondrial; Cytochrome C Oxidase subunit IV; Cytochrome c oxidase subunit IV isoform 1; Cytochrome c oxidase subunit IV isoform 2 (lung); Cytochrome c oxydase subunit 4; dJ857M17.2; MGC105470; MGC72016; anti-COX IV antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	COX IV antibody detects endogenous levels of total COX IV
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	169
Applicable Applications for anti-COX IV antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human COX IV
Subcellular Location	Mitochondrion Inner Membrane.
Tissue Specificity	Ubiquitous.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (91%), Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (91%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322100 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemisry)

AAA322100 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA322100 staining MCF-7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of COX IV expression in Jurkat cells.The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-COX IV antibody	Description: This antibody makes an effective loading control for mitochondria. COX IV is generally expressed at a consistent high level. However, be aware that many proteins run at the same 16kD size as COX IV-our VDAC1/Porin antibody makes a good alternative mitochondrial loading control for proteins of this size. Function: This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. Subunit Structure: Interacts with AFG1L (PubMed:26759378). Similarity: Belongs to the cytochrome c oxidase IV family.
References	Jianfei L, Min W, Chunlai M, Bicui C, Jiming Z, Bin W; Journal: Biochem Pharmacol. The Ca2+/CaMKK2 axis mediates the telbivudine induced upregulation of creatine kinase: Implications for mechanism of antiviral nucleoside analogs' side effect.

NCBI AND UNIPROT INFORMATION

NCBI GI #	974005293
NCBI GeneID	1327
NCBI Accession #	NP_001305715.1
NCBI GenBank Nucleotide #	NM_001318786.1
UniProt Accession #	P13073; Q6P666; B2R4J2; D3DUM7
Molecular Weight	Observed: 17 kDa Predicted: 20 kDa
NCBI Official Full Name	cytochrome c oxidase subunit 4 isoform 1, mitochondrial isoform 1
NCBI Official Synonym Full Names	cytochrome c oxidase subunit 4I1
NCBI Official Symbol	COX4I1
NCBI Official Synonym Symbols	COX4; COXIV; COX4-1; COXIV-1; COX IV-1
NCBI Protein Information	cytochrome c oxidase subunit 4 isoform 1, mitochondrial
UniProt Protein Name	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
UniProt Gene Name	COX4I1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cox-iv-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322100>