

Rabbit COX IV Polyclonal Antibody | anti-COXIV antibody

[KD Validated] COX IV Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28444	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry

PRODUCT SYNONYMS

COX IV; Polyclonal Antibody; [KD Validated] COX IV Rabbit pAb; COX4; COXIV; COX4-1; COXIV-1; MC4DN16; COX IV-1; anti-COXIV antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300,50% glycerol,pH7.3.
Applicable Applications for anti-COXIV antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry)
Application Notes	WB: 1:100-1:500 IHC-P: 1:50-1:200 IF/ICC: 1:50-1:200
Positive Samples	293T (KD), HepG2, Mouse heart, Rat heart
Cellular Location	Mitochondrion inner membrane
Research Area	Cancer, Signal Transduction, Endocrine Metabolism, Mitochondrial metabolism, Mitochondrial markers, Oxidative phosphorylation, Neuroscience, Neurodegenerative Diseases
Immunogen	Recombinant protein of human COX IV.
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles. Ship: Ice Pack

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of HepG2 cells using [KD Validated] COX IV Rabbit pAb (AAA28444) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



IF (Immunofluorescence)

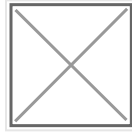
Immunofluorescence analysis of HeLa cells using [KD Validated] COX IV Rabbit pAb (AAA28444) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.

**IHC (Immunohistochemistry)**

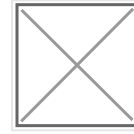
Immunohistochemistry analysis of paraffin-embedded mouse testis using [KD Validated] COX IV Rabbit pAb (AAA28444) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

**IF (Immunofluorescence)**

Immunohistochemistry analysis of paraffin-embedded human liver using [KD Validated] COX IV Rabbit pAb (AAA28444) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded human colon carcinoma using [KD Validated] COX IV Rabbit pAb (AAA28444) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

**WB (Western Blot)**

Western blot analysis of extracts from wild type(WT) and COX IVknockdown (KD) 293T(KD) cells, using COX IV antibody (AAA28444) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

ADDITIONAL INFORMATION

Related Product Information for anti-COXIV antibody	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 13 and 14. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product Categories/Family for anti-COXIV antibody	Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502981
NCBI GeneID	1327
NCBI Accession #	NP_001852.1
NCBI GenBank Nucleotide #	NM_001861.3
UniProt Accession #	P13073 ; Q6P666 ; B2R4J2 ; D3DUM7
Molecular Weight	19,577 Da
NCBI Official Full Name	cytochrome c oxidase subunit 4 isoform 1, mitochondrial
NCBI Official Synonym Full Names	cytochrome c oxidase subunit IV isoform 1
NCBI Official Symbol	COX4I1
NCBI Official Synonym Symbols	COX4; COXIV; COX4-1
NCBI Protein Information	cytochrome c oxidase subunit 4 isoform 1, mitochondrial; COX IV-1; cytochrome c oxidase polypeptide IV
UniProt Protein Name	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial
UniProt Gene Name	COX4I1
UniProt Synonym Gene Names	COX4; COX IV-1
UniProt Entry Name	COX41_HUMAN

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-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/28444>