

Mouse COX IV Monoclonal Antibody | anti-COXIV antibody

Anti-COX IV Mouse Monoclonal Antibody (14Y2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31542	Mouse	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

COX IV; Monoclonal Antibody; Anti-COX IV Mouse Monoclonal Antibody (14Y2); 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; anti-COXIV antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Purity/Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen
Form/Format	Liquid in PBS, pH7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.
Applicable Applications for anti-COXIV antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	WB: 1:1000-1:3000 IHC-P: 1:50-1:300 IF: 1:200
Tag	COX4I1
Observed Band (KD)	15
Immunogen	Recombinant Protein
Preparation and Storage	Stable for one year at -20 degree C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing. Shipping Gel pack with blue ice.

IMAGES



IF (Immunofluorescence)

Fig.6. Immunofluorescence analysis of rat kidney tissue. 1, COX IV Monoclonal Antibody (14Y2) (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



IF (Immunofluorescence)

Fig.5. Immunofluorescence analysis of mouse kidney tissue. 1, COX IV Monoclonal Antibody (14Y2) (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 Labeled secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B.



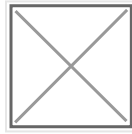
IHC (Immunohistochemistry)

Fig.4. Immunohistochemical analysis of paraffin-embedded rat kidney tissue. 1, COX IV Monoclonal Antibody (14Y2) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



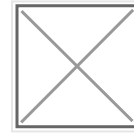
IHC (Immunohistochemistry)

Fig.3. Immunohistochemical analysis of paraffin-embedded mouse colon tissue. 1, COX IV Monoclonal Antibody (14Y2) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



IHC (Immunohistochemistry)

Fig.2. Immunohistochemical analysis of paraffin-embedded human uterus cancer tissue. 1, COX IV Monoclonal Antibody (14Y2) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



WB (Western Blot)

Fig.1. Western blot analysis of Hela, diluted at 1) 1:2000 2) 1:5000.

ADDITIONAL INFORMATION

Related Product Information for anti-COXIV antibody	Description: Featured Anti-COX IV Mouse Monoclonal Antibody (14Y2), specially designed for your immunoassay as internal control. Background: Cytochrome c Oxidase or Complex IV (EC 1.9.3.1) is a large transmembrane protein complex found in bacteria and the mitochondrion. It is the last enzyme in the respiratory electron transport chain of mitochondria (or bacteria) located in the mitochondrial (or bacterial) membrane. It receives an electron from each of four cytochrome c molecules, and transfers them to one oxygen molecule, converting molecular oxygen to two molecules of water.
Product Categories/Family for anti-COXIV antibody	Loading Antibody ; Protein Detection Antibody ; Protein

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/monoclonal/cox-iv-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/31542>