

COX IV Rabbit mAb

Catalog No: #60057

Package Size: #60057-1 50ul #60057-2 100ul

Description

Product Name	COX IV Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Purification	Affinity-chromatography
Applications	WB IHC ICC/IF
Species Reactivity	Human Mouse Rat
Specificity	COX IV Antibody detects endogenous levels of total COX IV
Immunogen Description	A synthesized peptide derived from COX IV
Other Names	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial; Cytochrome c oxidase polypeptide IV; COX IV-1; COX4I1; COX4;
Accession No.	Uniprot:P13073
Calculated MW	Predicted band size: 20 kDa
SDS-PAGE MW	Observed band size: 17 kDa
Formulation	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

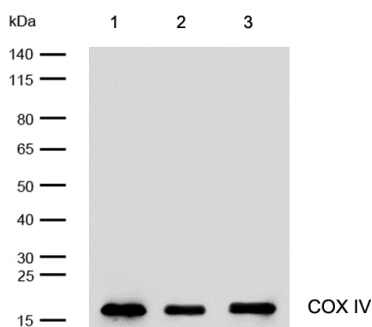
Application Details

WB: 1:500-1:2000

IHC: 1:50-1:200

ICC/IF: 1:50-1:200

Images



All lanes: COX IV Rabbit mAb at 1/1k dilution

Lane 1 : Hela whole cell lysates Lane 2 : 293 whole cell lysates Lane 3 : MCF-7 whole cell lysates
Lysates/proteins at 20 µg per lane.

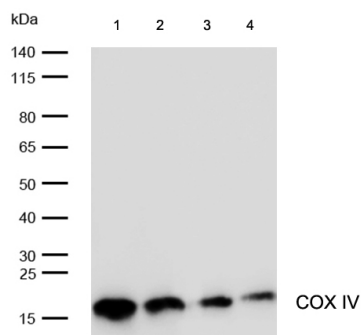
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 20 kDa

Observed band size: 17 kDa

Exposure time: 7 seconds



All lanes: COX IV Rabbit mAb at 1/1k dilution

Lane 1 : Mouse kidney lysates Lane 2 : Mouse brain lysates

Lane 3 : Rat kidney lysates Lane 4 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

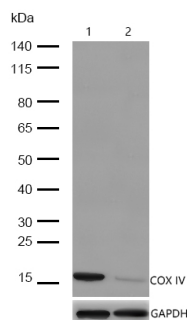
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 20 kDa

Observed band size: 17 kDa

Exposure time: 9 seconds

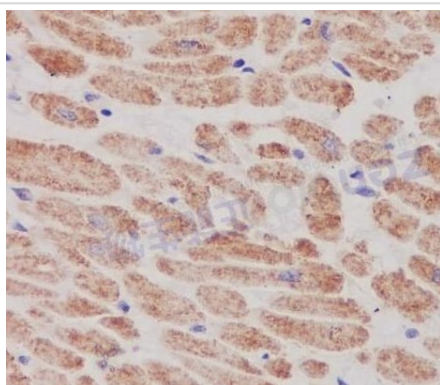


All lanes: COX IV Rabbit mAb at 1/1k dilution

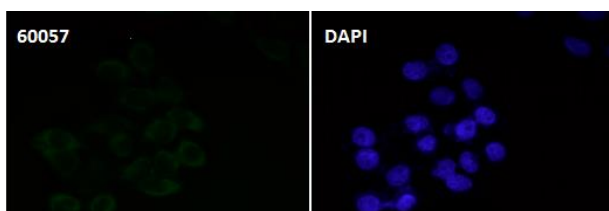
Lane 1 : Wild-type HT-1080 cell lysate

Lane 2 : COX IV Rabbit mAb knockdown HT-1080 cell lysate

Lysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded human heart tissue stained for COX IV using 60057 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence COX IV antibody (60057)

ICC/IF staining of COX IV in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 60057 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei

were counterstained with DAPI.

Background

Cytochrome c oxidase (COX) is a hetero-oligomeric enzyme consisting of 13 subunits localized to the inner mitochondrial membrane (1-3). It is the terminal enzyme complex in the respiratory chain, catalyzing the reduction of molecular oxygen to water coupled to the translocation of protons across the mitochondrial inner membrane to drive ATP synthesis.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.