

Rabbit MTCO2 Polyclonal Antibody | anti-MTCO2 antibody

MTCO2 Rabbit Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA313245	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

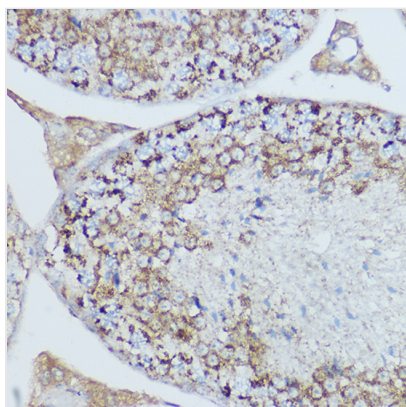
PRODUCT SYNONYMS

MTCO2; Polyclonal Antibody; MTCO2 Rabbit Polyclonal Antibody; MT-CO2; COII; COX2; anti-MTCO2 antibody

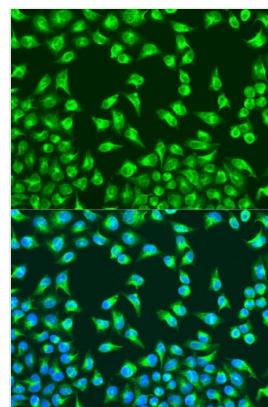
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Applicable Applications for anti-MTCO2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of mouse MTCO2 (NP_904331.1).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

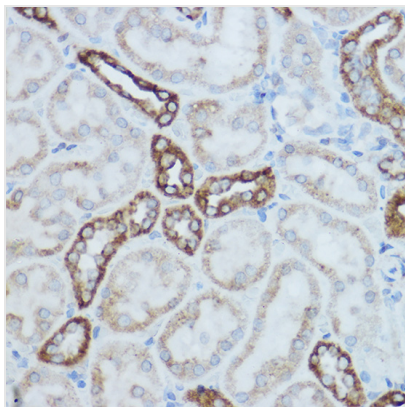
IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat testis using MTCO2 Rabbit pAb.

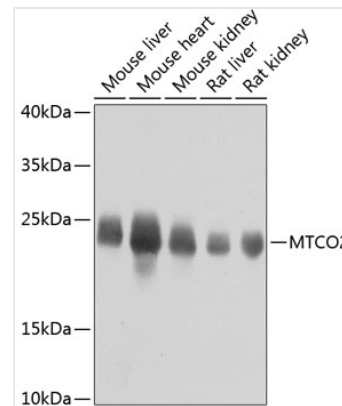

IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using MTCO2 antibody.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse kidney using MTCO2 Rabbit pAb.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using MTCO2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MTCO2 antibody

Component of the cytochrome c oxidase, the last enzyme in the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII, ubiquinol-cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII and cytochrome c oxidase (complex IV, CIV, that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Electrons originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via the dinuclear copper A center (CU(A of subunit 2 and heme A of subunit 1 to the active site in subunit 1, a binuclear center (BNC formed by heme A3 and copper B (CU(B. The BNC reduces molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4 protons from the mitochondrial matrix.

Product Categories/Family for anti-MTCO2 antibody

Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	117020
NCBI GeneID	4513
UniProt Accession #	P00403; Q37526
Molecular Weight	227
NCBI Official Full Name	Cytochrome c oxidase subunit 2
NCBI Official Synonym Full Names	mitochondrially encoded cytochrome c oxidase II
NCBI Official Symbol	MT-CO2
NCBI Official Synonym Symbols	COII; MTCO2; COX2
NCBI Protein Information	cytochrome c oxidase subunit II
UniProt Protein Name	Cytochrome c oxidase subunit 2
UniProt Gene Name	MT-CO2
UniProt Synonym Gene Names	COII; COXII; MTCO2
UniProt Entry Name	COX2_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.