

Datasheet for ABIN7266639
anti-COX2 antibody (AA 100-200)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µL
Target:	COX2
Binding Specificity:	AA 100-200
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	MTCO2 Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 100-200 of mouse MTCO2 (NP_904331.1).
Sequence:	MGHQWYWSYE YTDYEDLCFD SYMIPTNDLK PGELRLLEVD NRVVLPMEIP IRMLISSEVD LHSWAVPSLG LKTDAIPGRL NQATVTSNRP GLFYGQCSEI C
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	COX2
Alternative Name:	MT-CO2 (COX2 Products)
Background:	<p>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.,MT-CO2,COII,MTCO2,COX2,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Cytochromes,Mitochondrial markers,Oxidative phosphorylation,Neuroscience,Neurodegenerative Diseases,MT-CO2</p>
Molecular Weight:	25kDa
Gene ID:	17709
UniProt:	P00403
Pathways:	Brown Fat Cell Differentiation , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

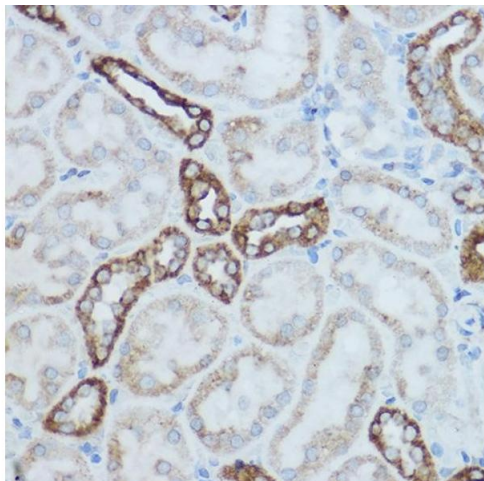
Handling

should be handled by trained staff only.

Storage: -20 °C

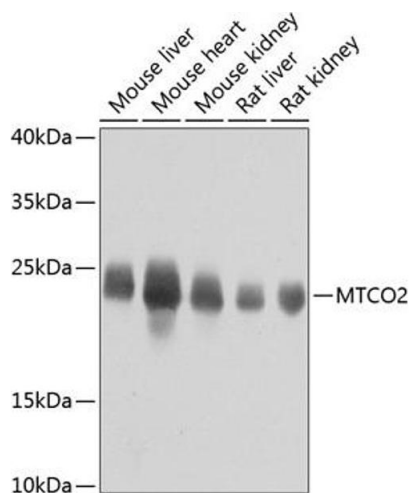
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



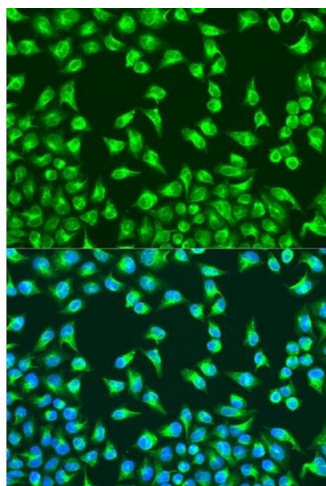
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse kidney using MTCO2 Rabbit pAb (ABIN7266639) at dilution of 1:500 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using MTCO2 antibody (ABIN7266639) at 1:800 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 15s.



Immunofluorescence

Image 3. Immunofluorescence analysis of U2OS cells using MTCO2 antibody (ABIN7266639) at dilution of 1:100. Blue: DAPI for nuclear staining.

Images

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7266639.