

For Research Use Only

# MTCO2 Recombinant antibody, PBS Only



Catalog Number: 83132-7-PBS

## Basic Information

<b>Catalog Number:</b> 83132-7-PBS	<b>GenBank Accession Number:</b> YP_003024029	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1mg/ml	<b>GeneID (NCBI):</b> 4513	<b>CloneNo.:</b> 230448C9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P00403	
<b>Isotype:</b> IgG	<b>Full Name:</b> cytochrome c oxidase II	
	<b>Calculated MW:</b> 26 kDa	
	<b>Observed MW:</b> 23-26 kDa	

## Applications

**Tested Applications:**  
WB, IP, IF, FC, Indirect ELISA

**Species Specificity:**  
Human

## Background Information

MTCO2, also named as COII, COXII, and COX2, belongs to the cytochrome c oxidase subunit 2 family. It is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. Subunit 2 transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1. Defects in COX2 are a cause of mitochondrial complex IV deficiency (MT-C4D).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

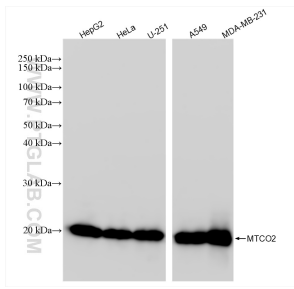
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

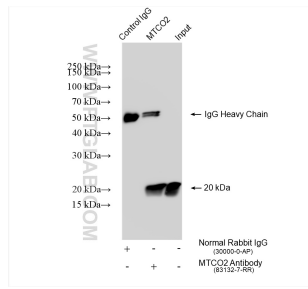
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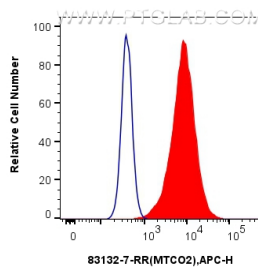
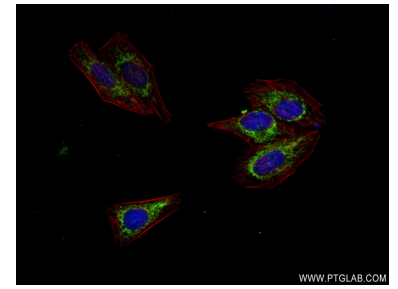
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83132-7-RR (MTCO2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83132-7-PBS in a different storage buffer formulation.



IP result of anti-MTCO2 (IP:83132-7-RR, 4ug; Detection:83132-7-RR 1:3000) with HeLa cells lysate 1750 ug. This data was developed using the same antibody clone with 83132-7-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug Anti-Human MTCO2 (83132-7-RR, Clone:230448C9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83132-7-PBS in a different storage buffer formulation.