For Research Use Only

MTCO2 Polyclonal antibody

Catalog Number:55070-1-AP

Featured Product

107 Publications

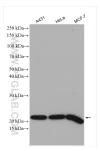


Basic Information	Catalog Number: 55070-1-AP	GenBank A YP_003024	ccession Number:	Purification Method: Antigen affinity purification	
	Size:	GenelD (N	-	Recommended Dilutions:	
	750 µg/ml	4513		WB 1:2000-1:12000	
	Source:	UNIPROT ID:		IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	Rabbit	P00403		IHC 1:4000-1:16000	
	Isotype: IgG	Full Name cytochrom	: e c oxidase II	IF 1:50-1:500	
	-	Calculated 26 kDa	Calculated MW: 26 kDa		
		Observed	MW:		
		23-26 kDa			
Applications	Tested Applications:		Positive Controls:		
	WB, IP, IF/ICC, FC, IHC, ELISA		WB: A431	WB : A431 cells, various samples, HeLa cells, MCF-7	
	Cited Applications: WB, IP, IF, IHC		cells		
	Species Specificity:		IP : HeLa c	ells,	
	human		IHC : human colon cancer tissue,		
	Cited Species: IF : HepG2 cells, human, rat, mouse, monkey, zebrafish, hamster				
	Note-IHC: suggested antig TE buffer pH 9.0; (*) Alter retrieval may be performe buffer pH 6.0	natively, antig	gen		
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 function core of the enzyme complex. Subunit 2 transfers the electrons from cytochrome c via its binuclear copper A center the bimetallic center of the catalytic subunit 1. Defects in COX2 are a cause of mitochondrial complex IV deficience (MT-C4D). The antibody is specific to MTCO2.				
Notable Publications	Author	Pubmed ID	Journal	Application	
Notable Publications	Author Q E Xie	Pubmed ID 34571250	Journal Mitochondrion	Application WB	
Notable Publications					
Notable Publications	Q E Xie	34571250	Mitochondrion	WB	

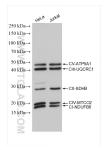
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

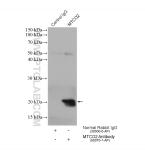
Selected Validation Data



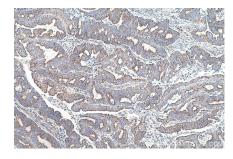
Various lysates were subjected to SDS PAGE followed by western blot with 55070-1-AP (MTCO2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



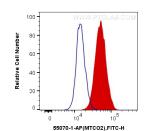
Various lysates were subjected to SDS PAGE followed by western blot with PK30006 (OXPHOS Cocktail (Human recommended)) at dilution of 1:4000 incubated at room temperature for 1 hours.



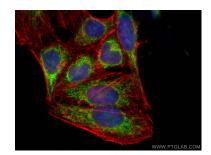
IP result of anti-MTCO2 (IP:55070-1-AP, 4ug; Detection:55070-1-AP 1:1000) with HeLa cells lysate 1880 ug.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 55070-1-AP (MTCO2 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 A431 cells were intracellularly stained with 0.4 ug Anti-Human MTCO2 (55070-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MTCO2 antibody (55070-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red).