

For Research Use Only

COX7B Polyclonal antibody

Catalog Number: 11417-2-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 11417-2-AP	GenBank Accession Number: BC018386	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 850 ug/ml by Nanodrop;	GeneID (NCBI): 1349	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P24311	
Isotype: IgG	Full Name: cytochrome c oxidase subunit VIIb	
Immunogen Catalog Number: AG1988	Calculated MW: 80 aa, 9 kDa	
	Observed MW: 9 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : mouse brain tissue, MCF-7 cells, rat brain tissue IHC : mouse heart tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

COX7B, also named as Cytochrome c oxidase subunit 7B, mitochondrial, is a 80 amino acid protein, which belongs to the cytochrome c oxidase VIIb family. COX7B protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX7B plays a role in proper central nervous system development in vertebrates. COX7B as a terminal enzyme in the mitochondrial respiratory chain (oxidative phosphorylation OXPHOS), catalyzing the electron transfer from reduced cytochrome c to molecule oxygen and plays a role in eye development.

Notable Publications

Author	Pubmed ID	Journal	Application
Lei Wu	33129969	J Nutr Biochem	WB
Guoqiang Han	39357516	Cell Stem Cell	WB
Shiyun Feng	37142077	Arch Biochem Biophys	WB

Storage

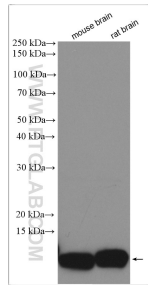
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

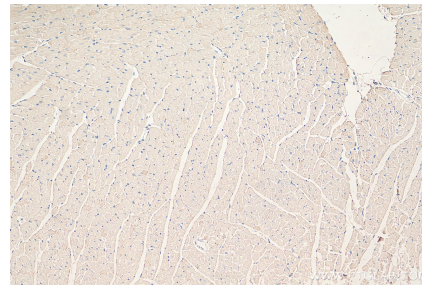
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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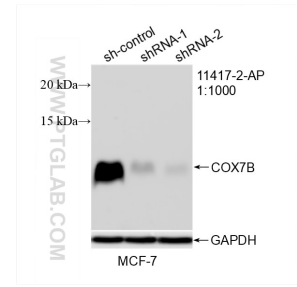
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11417-2-AP (COX7B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 11417-2-AP (COX7B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of COX7B antibody (11417-2-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-COX7B transfected MCF-7 cells.