

For Research Use Only

COX5A Recombinant monoclonal antibody

Catalog Number: 86938-1-RR



Basic Information

Catalog Number: 86938-1-RR	GenBank Accession Number: BC024240	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 9377	CloneNo.: 251697F7
Isotype: IgG	UNIPROT ID: P20674	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:250-1:1000
Immunogen Catalog Number: AG2005	Full Name: cytochrome c oxidase subunit Va	
	Calculated MW: 150 aa, 17 kDa	
	Observed MW: 13 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, mouse heart tissue, HepG2 cells, rat heart tissue, mouse brain tissue, rat brain tissue

IHC: mouse heart tissue,

IF/ICC: HepG2 cells,

Background Information

COX5A (Cytochrome c oxidase subunit 5A, mitochondrial) is also named COXVA and belongs to the cytochrome c oxidase subunit 5A family. This is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. The mature human COX Va polypeptide shares 35% and 95% protein sequence identity with the corresponding *S. cerevisiae* COX subunit VI and bovine COX Va, respectively (PMID:2853101).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

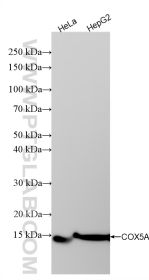
T: 4006900926

E: Proteintech-CN@ptglab.com

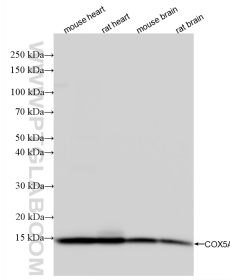
W: ptgcn.com

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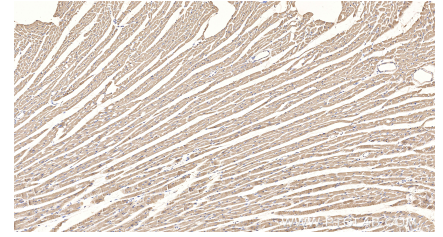
Selected Validation Data



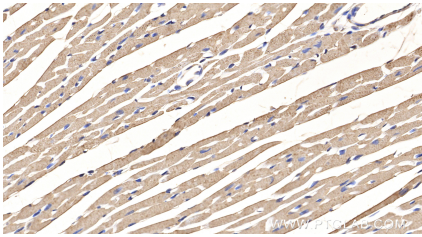
Various lysates were subjected to SDS PAGE followed by western blot with 86938-1-RR (COX5A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



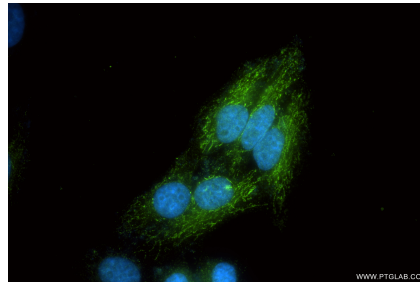
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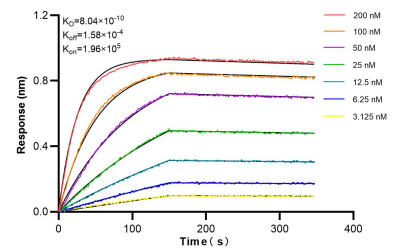
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86938-1-RR (COX5A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86938-1-RR (COX5A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using COX5A antibody (86938-1-RR, Clone: 251697F7) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Bi-layer interferometry (BLI) kinetic assays of 86938-1-RR against Human COX5A were performed. The affinity constant is 0.804 nM.