

For Research Use Only

NDUFS8 Recombinant monoclonal antibody

Catalog Number: 87156-1-RR



Basic Information

Catalog Number: 87156-1-RR	GenBank Accession Number: BC119754	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4728	CloneNo.: 252267D5
Source: Rabbit	UNIPROT ID: O00217	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:250-1:1000
Isotype: IgG	Full Name: NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q reductase)	
Immunogen Catalog Number: AG18531	Calculated MW: 210 aa, 24 kDa	
	Observed MW: 24 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, Jurkat cells, rat heart tissue

IHC: mouse heart tissue,

IF/ICC: HeLa cells,

Background Information

NADH: ubiquinone oxidoreductase core subunit S8 (NDUFS8), also called TYKY, is an essential core subunit and component of the iron-sulfur (FeS) fragment of mitochondrial complex I directly involved in the electron transfer process and energy metabolism (PMID: 36557887). Pathogenic variants of the NDUFS8 are relevant to infantile-onset and severe diseases, including Leigh syndrome, cancer, and diabetes mellitus (PMID: 36557887). Knockdown of NDUFS8 impaired mitochondrial function, increased ROS, disrupted redox homeostasis, induced apoptosis, and suppressed proliferation and migration of HCC cells (PMID: 40914145).

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

*** 20ul sizes contain 0.1% BSA

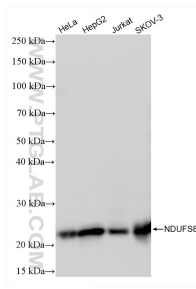
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

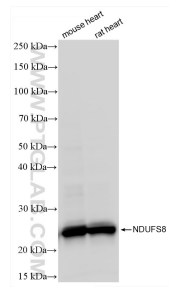
E: proteintech@ptglab.com
W: ptglab.com

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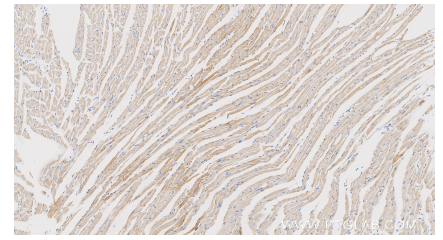
Selected Validation Data



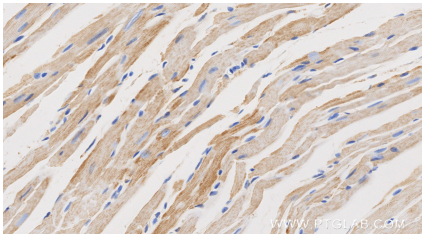
Various lysates were subjected to SDS PAGE followed by western blot with 87156-1-RR (NDUF58 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



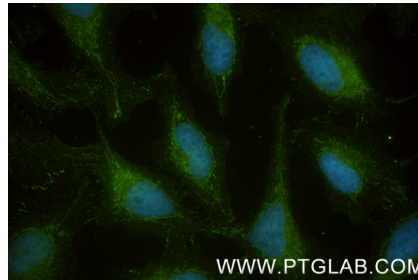
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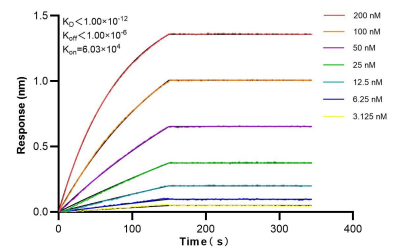
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 87156-1-RR (NDUF58 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 87156-1-RR (NDUF58 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 HeLa cells using NDUF58 antibody (87156-1-RR, Clone: 252267D5) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Bi-layer interferometry (BLI) kinetic assays of 87156-1-RR against Human NDUF58 were performed. The affinity constant is below 1 pM.