

For Research Use Only

NDUFS8 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87156-1-PBS



Basic Information

Catalog Number: 87156-1-PBS	GenBank Accession Number: BC119754	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4728	CloneNo.: 252267D5
Source: Rabbit	UNIPROT ID: O00217	
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, Indirect ELISA

Species Specificity:
human, mouse, rat

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

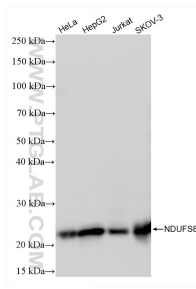
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

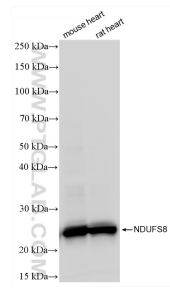
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

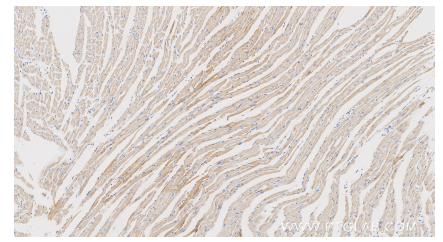
Selected Validation Data



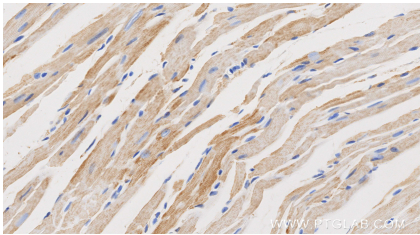
Various lysates were subjected to SDS PAGE followed by western blot with 87156-1-RR (NDUFS8 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87156-1-PBS in a different storage buffer formulation.



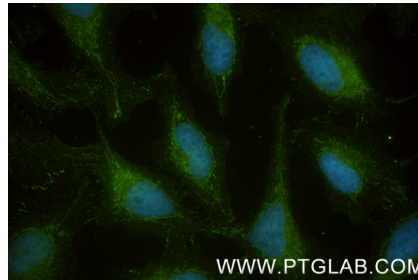
Various lysates were subjected to SDS PAGE followed by western blot with 87156-1-RR (NDUFS8 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87156-1-PBS in a different storage buffer formulation.



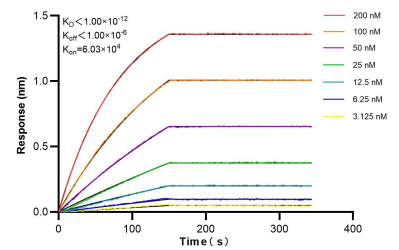
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 87156-1-RR (NDUFS8 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87156-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 87156-1-RR (NDUFS8 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87156-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using NDUFS8 antibody (87156-1-RR, Clone: 252267D5) at dilution of 1:500 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 87156-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 87156-1-RR against Human NDUFS8 were performed. The affinity constant is below 1 pM.