

For Research Use Only

NDUFS2 Recombinant antibody

Catalog Number: 84880-1-RR



Basic Information

Catalog Number: 84880-1-RR	GenBank Accession Number: BC000170	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 4720	CloneNo.: 242238D4
Source: Rabbit	UNIPROT ID: O75306	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)	
Immunogen Catalog Number: AG28008	Calculated MW: 53 kDa	
	Observed MW: 40-50 kDa	

Applications

Tested Applications: WB, FC (Intra), ELISA	Positive Controls: WB : Jurkat cells, HEK-293 cells, HeLa cells, mouse heart tissue, mouse liver tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue
Species Specificity: human, mouse, rat	

Background Information

Mitochondrial Complex I, responsible for the oxidation of NADH, is suspected to be an integral component of the O₂-sensing pathway. NDUFS2 (NADH:Ubiquinone Oxidoreductase Core Subunit S2), a key subunit of complex I in the mitochondrial electron transport chain (ETC), is essential for acute oxygen-sensing and hypoxic pulmonary vasoconstriction (PMID: 30922174). Functions of NDUFS2 are associated with growth, cell-membrane integrity, ROS generation, apoptosis, necrosis, Complex I respiration, and synthesis of ATP (PMID: 33744462).

Storage

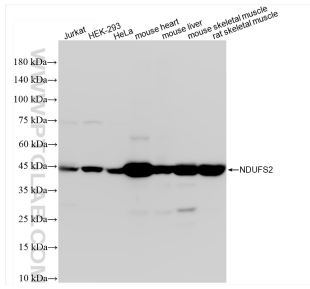
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

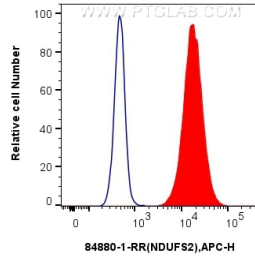
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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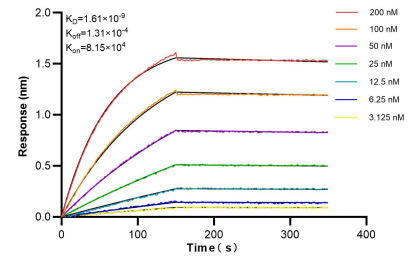
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84880-1-RR (NDUFS2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1×10^6 HepG2 cells were intracellularly stained with 0.25 μ g NDUFS2 Recombinant antibody (84880-1-RR, Clone:242238D4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 84880-1-RR against Human NDUFS2 were performed. The affinity constant is 1.61 nM.