

For Research Use Only

NDUFS2 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 84880-1-PBS



Basic Information

Catalog Number: 84880-1-PBS	GenBank Accession Number: BC000170	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4720	CloneNo.: 242238D4
Isotype: IgG	UNIPROT ID: O75306	
Immunogen Catalog Number: AG28008	Full Name: NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH- coenzyme Q reductase)	
	Calculated MW: 53 kDa	
	Observed MW: 40-50 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), Cytometric bead array, Indirect
ELISA

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

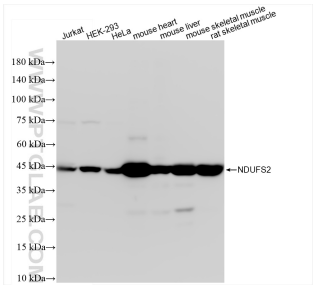
T: 4006900926

E: Proteintech-CN@ptglab.com

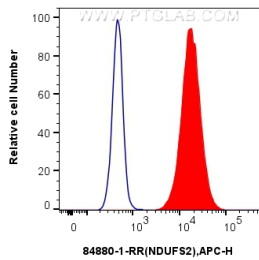
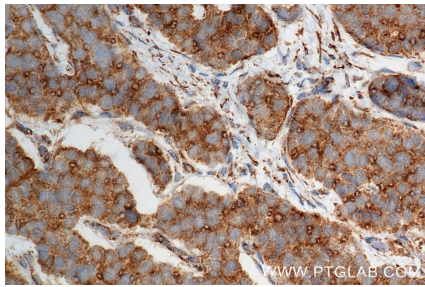
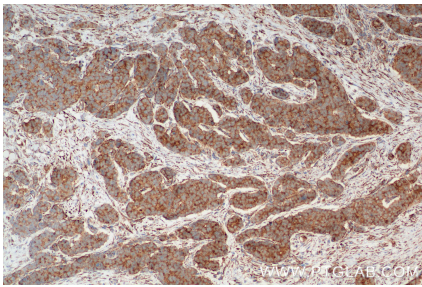
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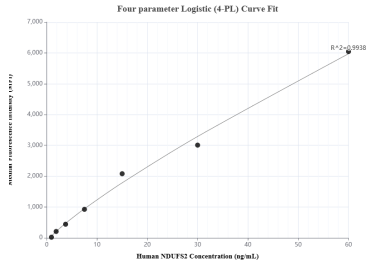
Selected Validation Data



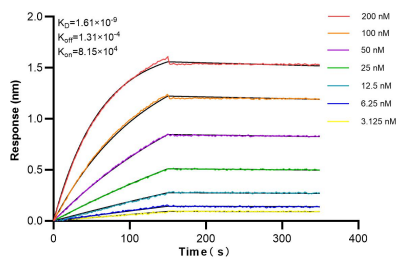
Various lysates were subjected to SDS PAGE followed by western blot with 84880-1-RR (NDUF52 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84880-1-PBS in a different storage buffer formulation.



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug NDUF52 Recombinant antibody (84880-1-RR, Clone:242238D4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug 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. This data was developed using the same antibody clone with 84880-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01653-2, NDUF52 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84880-3-PBS. Detection antibody: 84880-1-PBS. Standard: Ag28008. Range: 0.938-60 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 84880-1-RR against Human NDUF52 were performed. The affinity constant is 1.61 nM.