

For Research Use Only

# NDUFS2 Recombinant antibody

Catalog Number: 84880-1-RR



## Basic Information

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

## Applications

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

## Background Information

Mitochondrial Complex I, responsible for the oxidation of NADH, is suspected to be an integral component of the O<sub>2</sub>-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

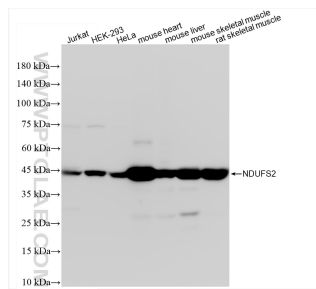
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

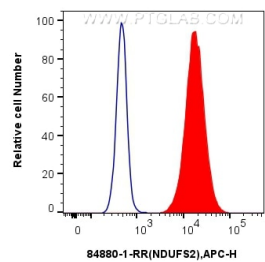
For technical support and original validation data for this product please contact:  
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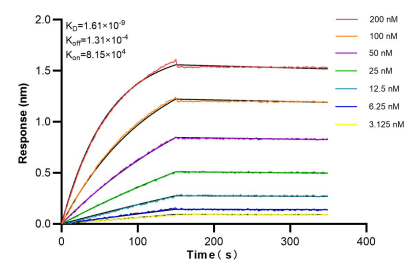
## Selected Validation Data



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.



1x10<sup>6</sup> 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 (PF00011-C).



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