

For Research Use Only

NDUFS2 Recombinant antibody

Catalog Number: 84880-1-RR



Basic Information

Catalog Number:

84880-1-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG28008

GenBank Accession Number:

BC000170

GeneID (NCBI):

4720

UNIPROT ID:

O75306

Full Name:

NADH dehydrogenase (ubiquinone)

Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)

Calculated MW:

53 kDa

Observed MW:

40-50 kDa

Purification Method:

Protein A purification

CloneNo.:

242238D4

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: Jurkat cells, HEK-293 cells, HeLa cells, mouse heart tissue, mouse liver tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue

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

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

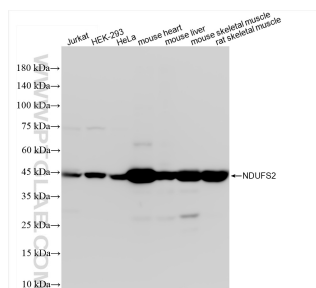
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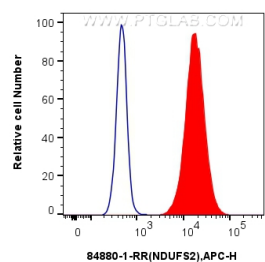
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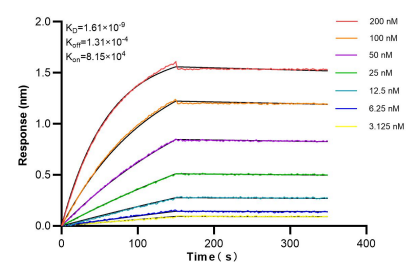
Selected Validation Data



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.



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 (PF00011-C).



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