

For Research Use Only

# NDUFA1 Recombinant antibody

Catalog Number: 86470-1-RR



## Basic Information

<b>Catalog Number:</b> 86470-1-RR	<b>GenBank Accession Number:</b> BC000266	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4694	<b>CloneNo.:</b> 251084A5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O15239	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa	
<b>Immunogen Catalog Number:</b> AG7206	<b>Calculated MW:</b> 7.5 kDa	
	<b>Observed MW:</b> 8 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB :** A-673 cells, SK-BR-3 cells, PANC-1 cells, Ramos cells, HeLa cells, mouse heart tissue, rat heart tissue

**IHC :** mouse heart tissue, rat heart tissue

## Background Information

NDUFA1, also known as NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1, it's part of the NADH dehydrogenase (ubiquinone) 1 alpha subcomplex. The NDUFA1 gene encoding the MWFE polypeptide is located on the X chromosome. The NDUFA1 gene product (MWFE protein) is essential for activity of complex I in mammalian mitochondria, and it is predicted to be a membrane protein (PMID: 10200266).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

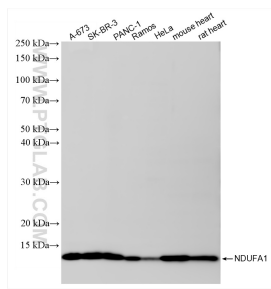
T: 4006900926

E: Proteintech-CN@ptglab.com

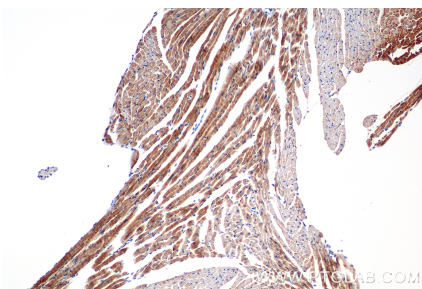
W: ptgcn.com

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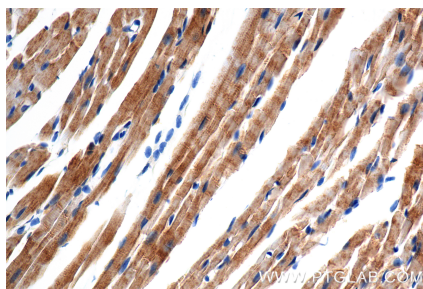
Selected Validation Data



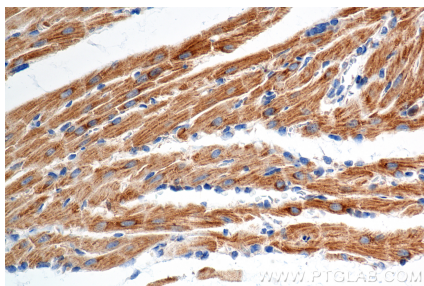
Various lysates were subjected to SDS PAGE followed by western blot with 86470-1-RR (NDUFA1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



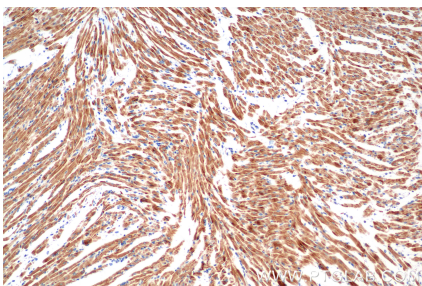
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86470-1-RR (NDUFA1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



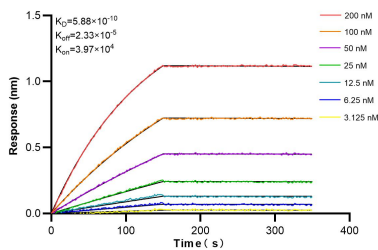
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 86470-1-RR (NDUFA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 86470-1-RR (NDUFA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 86470-1-RR (NDUFA1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Bilayer interferometry (BLI) kinetic assays of 86470-1-RR against Human NDUFA1 were performed. The affinity constant is 0.588 nM.