

## NDUFB7 Monoclonal antibody

Catalog Number: 68362-1-Ig

## Basic Information

<b>Catalog Number:</b> 68362-1-Ig	<b>GenBank Accession Number:</b> BC002595	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4713	<b>CloneNo.:</b> 1H8C1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P17568	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000
<b>Isotype:</b> IgG1	<b>Full Name:</b> NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	
<b>Immunogen Catalog Number:</b> AG6720	<b>Calculated MW:</b> 16 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse, rat, pig, rabbit

**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 :** LNCaP cells, MCF-7 cells, HeLa cells, HEK-293 cells, PC-3 cell, pig heart tissue, rabbit heart tissue, rat heart tissue, mouse heart tissue

**IHC :** mouse heart tissue,

## Background Information

NDUFB7(NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7) is also named as CI-B18 and belongs to the complex I NDUFB7 subunit family. It is an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which couples the oxidation of NADH to the reduction of ubiquinone and the translocation of protons across the inner membrane. NDUFB7 protein lacks a mitochondrial targeting signal and transmembrane domains. However, it has a Cx(9)C motif that includes an intermembrane space targeting signal. (PMID:21310150).

## Storage

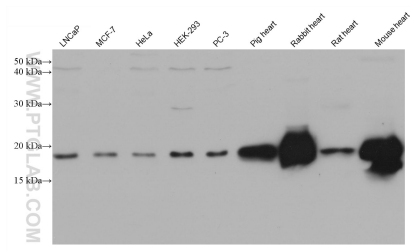
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

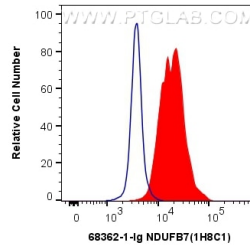
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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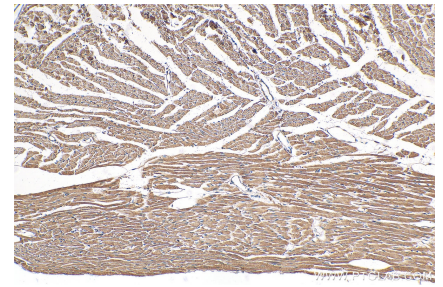
## Selected Validation Data



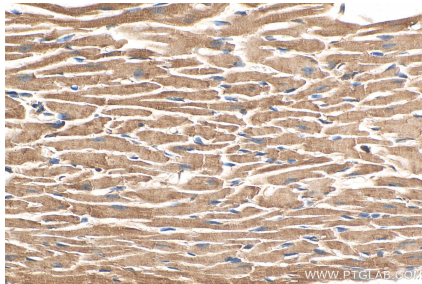
Various lysates were subjected to SDS PAGE followed by western blot with 68362-1-Ig (NDUFB7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human NDUFB7 (68362-1-Ig, Clone:1H8C1) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 68362-1-Ig (NDUFB7 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 68362-1-Ig (NDUFB7 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).