For Research Use Only

NDUFB7 Polyclonal antibody

Catalog Number:14912-1-AP 8 Publications

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Basic Information

Catalog Number:
14912-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 487 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6709

GenBank Accession Number:
BC002595

GeneID (NCBI):
4713

Full Name:
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa

Calculated MW:
16 kDa

Observed MW:
18-22 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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 : mouse ovary tissue, MCF-7 cells, mouse brain tissue

IP : mouse brain tissue,

IHC : human brain tissue, human cervical cancer tissue, human heart tissue, human kidney tissue, human liver tissue, human lung tissue, human placenta tissue, human spleen tissue, human testis 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Lena Wischhof	29780003	Mol Metab	WB
Gyu Song	27385396	Mol Med	WB
K Meyer	26158520	Cell Death Dis	WB

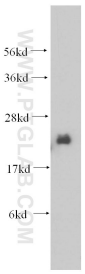
Storage

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

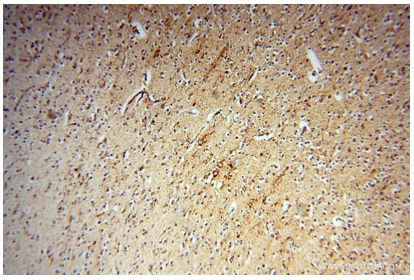
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

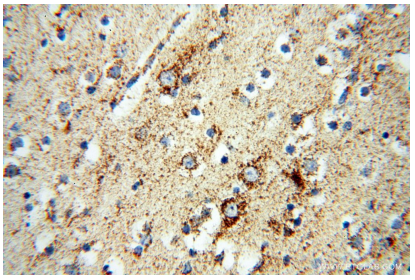
Selected Validation Data



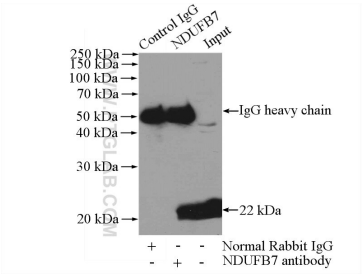
mouse ovary tissue were subjected to SDS PAGE followed by western blot with 14912-1-AP (NDUFB7 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 14912-1-AP (NDUFB7 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 14912-1-AP (NDUFB7 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-NDUFB7 (IP:14912-1-AP, 3ug; Detection:14912-1-AP 1:500) with mouse brain tissue lysate 2640ug.