

**NDUFB1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57386**

**Specification**

**NDUFB1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">075438</a>
Host	Rabbit
Clonality	Polyclonal
Calculated MW	7 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NDUFB1
Epitope Specificity	21-58/58
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion inner membrane.
SIMILARITY	Belongs to the complex I NDUFB1 subunit family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

NDUFB1 is a 58 amino acid single-pass membrane protein that localizes to the matrix side of the mitochondrial membrane. A member of the complex I NDUFB1 subunit family, NDUFB1 is encoded by a gene that maps to human chromosome 14q32.12. Chromosome 14 houses over 700 genes and comprises nearly 3.5% of the human genome. Chromosome 14 encodes the presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease (AD). The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder  $\alpha$ -antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

**NDUFB1 Polyclonal Antibody - Additional Information**

**Gene ID** 4707

**Other Names**

NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 1, Complex I-MNLL, CI-MNLL, NADH-ubiquinone oxidoreductase MNLL subunit, NDUFB1

**Dilution**

IHC-P ~ ~ N/A  
IHC-F ~ ~ N/A  
IF ~ ~ 1:50 ~ 200  
ICC ~ ~ N/A

\><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**NDUFB1 Polyclonal Antibody - Protein Information**

**Name** NDUFB1

**Function**

Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.

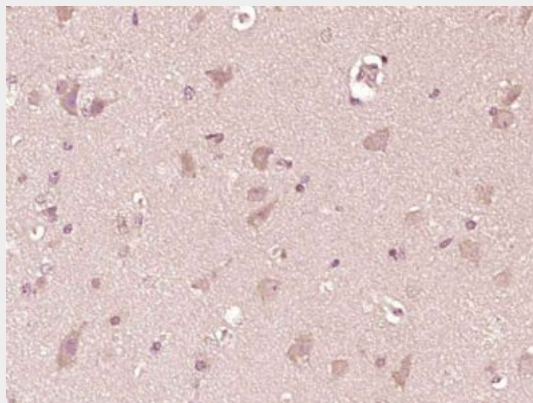
**Cellular Location**

Mitochondrion inner membrane; Single-pass membrane protein; Matrix side

**NDUFB1 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NDUFB1 Polyclonal Antibody - Images**

Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen

peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NDUFB1) Polyclonal Antibody, Unconjugated (bs-19079R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.