

ND2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9387a

Specification

ND2 Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P03891
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	31-59

ND2 Antibody (N-term) - Additional Information

Gene ID 4536

Other Names

NADH-ubiquinone oxidoreductase chain 2, NADH dehydrogenase subunit 2, MT-ND2, MTND2, NADH2, ND2

Target/Specificity

This ND2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-59 amino acids from the N-terminal region of human ND2.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ND2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ND2 Antibody (N-term) - Protein Information

Name MT-ND2 ([HGNC:7456](#))

Synonyms MTND2, NADH2, ND2

Function Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:[16996290](#)). Essential for the catalytic activity and assembly of complex I (PubMed:[16996290](#)).

Cellular Location

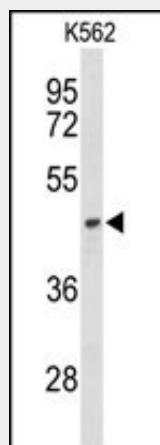
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P03892}; Multi-pass membrane protein

ND2 Antibody (N-term) - Protocols

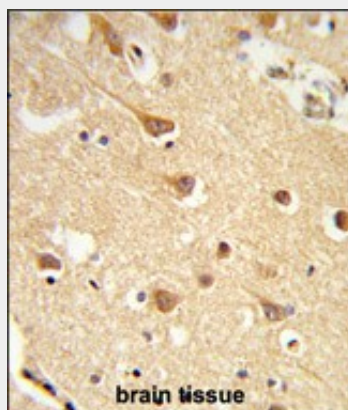
Provided below are standard protocols that you may find useful for product applications.

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

ND2 Antibody (N-term) - Images

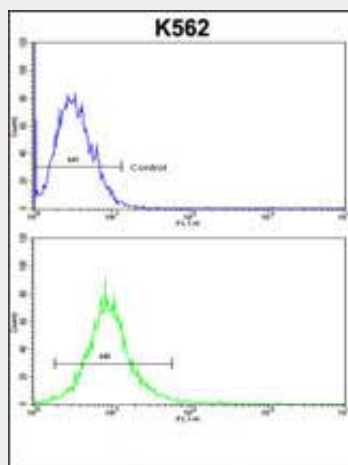


Western blot analysis of ND2 Antibody (N-term) (Cat. #AP9387a) in K562 cell line lysates (35ug/lane). ND2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ND2 Antibody (N-term),

which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ND2 Antibody (N-term)(Cat. #AP9387a) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ND2 Antibody (N-term) - Background

ND2 is core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. This protein 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

ND2 Antibody (N-term) - References

Saitoh,K., et.al., J. Mol. Evol. 63 (6), 826-841 (2006)