

**MT-ND1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20750a**

**Specification**

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**MT-ND1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P03886</a>
Other Accession	<a href="#">O79874</a> , <a href="#">P03887</a> , <a href="#">O78747</a>
Reactivity	Human
Predicted	Bovine, Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35661

**MT-ND1 Antibody (N-term) - Additional Information**

**Gene ID** 4535

**Other Names**

NADH-ubiquinone oxidoreductase chain 1, NADH dehydrogenase subunit 1, MT-ND1, MTND1, NADH1, ND1

**Target/Specificity**

This MT-ND1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 34-68 amino acids from the N-terminal region of human MT-ND1.

**Dilution**

WB~~1:1000

**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**

MT-ND1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MT-ND1 Antibody (N-term) - Protein Information**

**Name** MT-ND1

**Synonyms** MTND1, NADH1, ND1

**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:[1959619](#)). Essential for the catalytic activity and assembly of complex I (PubMed:[1959619](#), PubMed:[26929434](#)).

#### Cellular Location

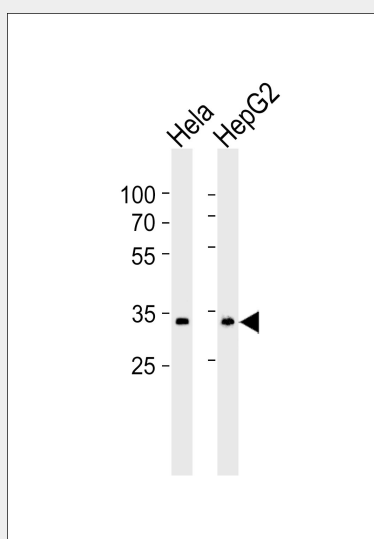
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P03887}; Multi-pass membrane protein

#### MT-ND1 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](#)

#### MT-ND1 Antibody (N-term) - Images



Western blot analysis of lysates from HeLa, HepG2 cell line (from left to right), using MT-ND1 Antibody (N-term)(Cat. #AP20750a). AP20750a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

#### MT-ND1 Antibody (N-term) - Background

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for 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 (By similarity).

#### MT-ND1 Antibody (N-term) - References

Anderson S.,et al.Nature 290:457-465(1981).  
Horai S.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:532-536(1995).  
Moilanen J.S.,et al.Mol. Biol. Evol. 20:2132-2142(2003).  
Ingman M.,et al.Nature 408:708-713(2000).  
Ingman M.,et al.Genome Res. 13:1600-1606(2003).