10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MT-ND1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20750a

Product Information

Application	WB, E
Primary Accession	P03886
Reactivity	Human
Predicted	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50705
Calculated MW	35661

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 E~~Use at an assay dependent concentration.
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.

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

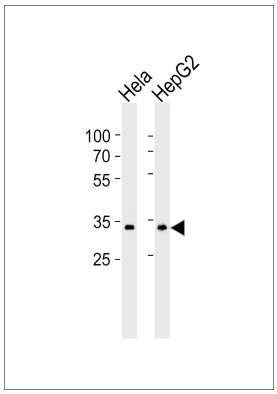
Background

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).

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).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.