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MT-ND2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51802

Product Information

Application	WB
Primary Accession	P03891
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38961

Additional Information

Gene ID	4536
Other Names	NADH-ubiquinone oxidoreductase chain 2, NADH dehydrogenase subunit 2, MT-ND2, MTND2, NADH2, ND2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MT-ND2. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

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

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Sanger F.,et al.J. Mol. Biol. 143:161-178(1980).
Wise C.A.,et al.Genetics 148:409-421(1998).
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).