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ND3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12310a

Product Information

Application	WB, FC, E
Primary Accession	P03897
Other Accession	YP_003024033.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31097
Calculated MW	13186
Antigen Region	10-38

Additional Information

Gene ID	4537
Other Names	NADH-ubiquinone oxidoreductase chain 3, NADH dehydrogenase subunit 3, MT-ND3, MTND3, NADH3, ND3
Target/Specificity	This ND3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-38 amino acids from the N-terminal region of human ND3.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	ND3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

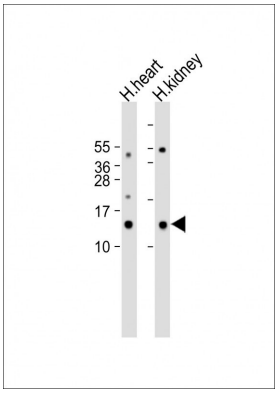
Name	MT-ND3 (HGNC:7458)
Synonyms	MTND3, NADH3, ND3
Function	Core subunit of the mitochondrial membrane respiratory chain NADH

	dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:25118196). Essential for the catalytic activity of complex I (PubMed:25118196).
Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:P03898}; Multi-pass membrane protein

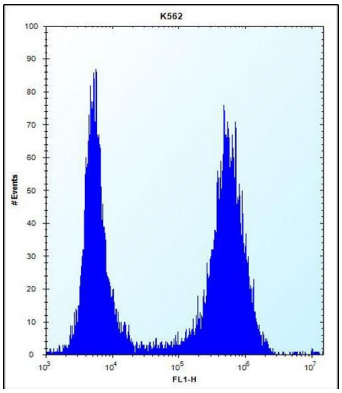
Background

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).

Images



All lanes : Anti-ND3 Antibody (N-term) at 1:1000 dilution Lane 1: Human heart whole tissue lysate Lane 2:Human kidney whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 13 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



ND3 Antibody (N-term) (Cat. #AP12310a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

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