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NDUFAB1 Recombinant Rabbit mAb

Catalog # AP100055

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	O14561
Other Accession	O14561
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	17417
Physical State	Liquid
Immunogen	A synthesized peptide derived from human NDUFAB1
Epitope Specificity	120-156
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Contains 1 acyl carrier domain.
SUBUNIT	Mammalian complex I is composed of 45 different subunits.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Carrier of the growing fatty acid chain in fatty acid biosynthesis.Accessory and non-catalytic subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain (PubMed:27626371).

Additional Information

Gene ID	4706
Other Names	ACP; ACP1; FASN2A; SDAP; 2210401F17Rik; 2310039H15Rik; 2610003B19Rik; 8kDa; 9130423F15Rik; CI-SDAP; ACPM_HUMAN; NDUFAB1; NADH-ubiquinone oxidoreductase 9.6 kDa subunit; ACPM_MOUSE; NADH:ubiquinone oxidoreductase subunit AB1; NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1 (8kD, SDAP); NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa; acyl carrier protein, mitochondrial; complex I SDAP subunit
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IP=1:20-50,Flow-Cyt=1:50-100,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NDUFAB1 (HGNC:7694)
Function	Carrier of the growing fatty acid chain in fatty acid biosynthesis (By similarity) (PubMed:27626371). Accessory and non- catalytic subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain (PubMed:27626371). Accessory protein, of the core iron-sulfur cluster (ISC) assembly complex, that regulates, in association with LYRM4, the stability and the cysteine desulfurase activity of NFS1 and participates in the [2Fe-2S] clusters assembly on the scaffolding protein ISCU (PubMed:31664822). The core iron-sulfur cluster (ISC) assembly complex is involved in the de novo synthesis of a [2Fe-2S] cluster, the first step of the mitochondrial iron-sulfur protein biogenesis. This process is initiated by the cysteine desulfurase complex (NFS1:LYRM4:NDUFAB1) that produces persulfide which is delivered on the scaffold protein ISCU in a FXN-dependent manner. Then this complex is stabilized by FDX2 which provides reducing equivalents to accomplish the [2Fe-2S] cluster assembly. Finally, the [2Fe-2S] cluster is transferred from ISCU to chaperone proteins, including HSCB, HSPA9 and GLRX5 (By similarity).
Cellular Location	Mitochondrion

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