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NDUFAB1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17444c

Product Information

Application	WB, E
Primary Accession	O14561
Other Accession	Q9CR21, P52505, NP_004994.1
Reactivity	Human, Mouse
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37161
Calculated MW	17417
Antigen Region	72-99

Additional Information

Gene ID	4706
Other Names	Acyl carrier protein, mitochondrial, ACP, CI-SDAP, NADH-ubiquinone oxidoreductase 96 kDa subunit, NDUFAB1
Target/Specificity	This NDUFAB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-99 amino acids from the Central region of human NDUFAB1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	NDUFAB1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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

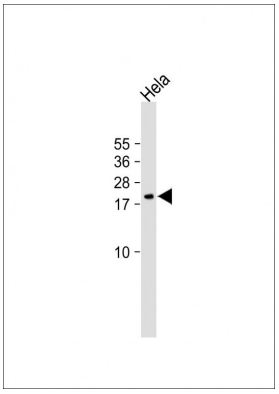
Background

Carrier of the growing fatty acid chain in fatty acid biosynthesis in mitochondria. 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 (By similarity).

References

Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)
Feng, D., et al. J. Biol. Chem. 284(17):11436-11445(2009)
Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008)
Zhang, X., et al. BMC Cell Biol. 9, 8 (2008) :
Harris, S.E., et al. BMC Genet. 8, 43 (2007) :

Images



All lanes : Anti-NDUFAB1 Antibody (Center) at 1:500 dilution Lane 1: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 18kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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