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# NDUFAB1 Antibody (Center)
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP17444c**

## Specification

### NDUFAB1 Antibody (Center) - Product Information

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

### NDUFAB1 Antibody (Center) - 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 0.09% (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**
NDUFAB1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### NDUFAB1 Antibody (Center) - 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).

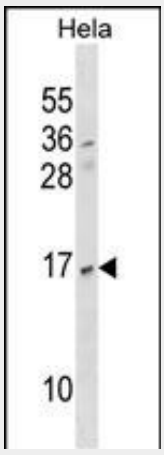
**Cellular Location**
Mitochondrion

## NDUFAB1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## NDUFAB1 Antibody (Center) - Images




NDUFAB1 Antibody (Center) (Cat. #AP17444c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the NDUFAB1 antibody detected the NDUFAB1 protein (arrow).

## NDUFAB1 Antibody (Center) - 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).

**NDUFAB1 Antibody (Center) - 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) :