

# Recombinant Anti-NDUFAB1 Rabbit mAb

Catalog # AP94909

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, FC, IP        |
| Primary Accession | <a href="#">O14561</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Monoclonal             |
| Calculated MW     | 17417                  |

## Additional Information

|                    |                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 4706                                                                                                                      |
| Other Names        | Acyl carrier protein, mitochondrial; ACP; CI-SDAP; NADH-ubiquinone oxidoreductase 9.6 kDa subunit                         |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within human NDUFAB1 protein. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A                                                                |
| Format             | Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.                                                     |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                 |

## Protein Information

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| Name     | NDUFAB1 ( <a href="#">HGNC:7694</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Function | Carrier of the growing fatty acid chain in fatty acid biosynthesis (By similarity) (PubMed: <a href="#">27626371</a> ). 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: <a href="#">27626371</a> ). 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: <a href="#">31664822</a> ). 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

**Images**

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Western blot analysis of NDUFB1 expression in A431 (A) whole cell lysates. (Predicted band size: 17 kD; Observed band size: 10 kD)

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