

NDUFAB1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17444c**Specification**

NDUFAB1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O14561](#)**NDUFAB1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 4706**Other Names**

Acyl carrier protein, mitochondrial, ACP, CI-SDAP, NADH-ubiquinone oxidoreductase 96 kDa subunit, NDUFAB1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NDUFAB1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

NDUFAB1 Antibody (Center) Blocking Peptide - Images**NDUFAB1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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) :