

NDUFAB1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14139b**Specification**

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

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14139b was selected from the C-term region of NDUFAB1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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 (C-term) 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 (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

NDUFAB1 Antibody (C-term) Blocking peptide - Images**NDUFAB1 Antibody (C-term) 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 (C-term) 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) :