

NDUFAB1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14139b

Specification

NDUFAB1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O14561
Other Accession	O9CR21 , P52505 , NP_004994.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	128-156

NDUFAB1 Antibody (C-term) - 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 128-156 amino acids from the C-terminal region of human NDUFAB1.

Dilution

WB~~1:1000
IHC-P~~1:10~50

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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NDUFAB1 Antibody (C-term) - 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

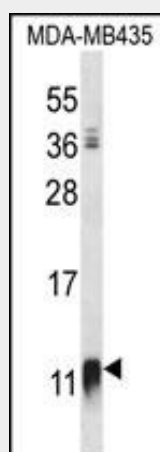
Mitochondrion

NDUFAB1 Antibody (C-term) - Protocols

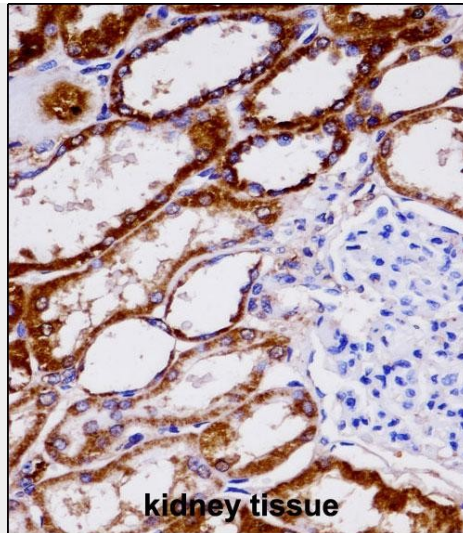
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NDUFAB1 Antibody (C-term) - Images



NDUFAB1 Antibody (C-term) (Cat. #AP14139b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the NDUFAB1 antibody detected the NDUFAB1 protein (arrow).



NDUFAB1 (C-term) (AP14139b) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NDUFAB1 (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

NDUFAB1 Antibody (C-term) - 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) - 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) :