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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	Q9CR21, 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).

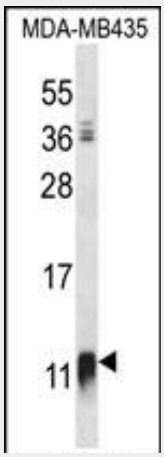
Cellular Location
Mitochondrion

NDUFAB1 Antibody (C-term) - Protocols

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

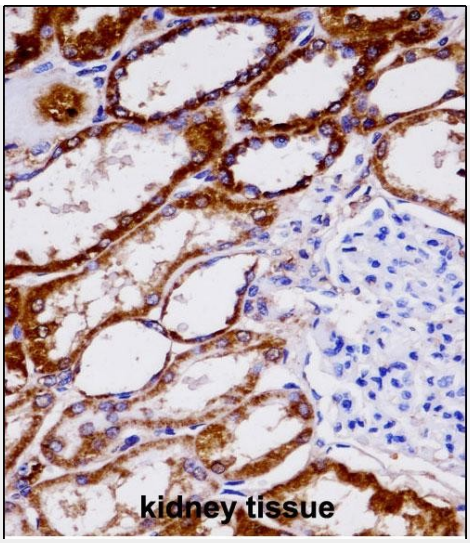
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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).

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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) :