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NDUFS1 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS14935

Specification

NDUFS1 Antibody (Internal) - Product Information

Application	**WB, IHC**
Primary Accession	P28331
Reactivity	**Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Goat, Horse, Xenopus, Bovine, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**79kDa KDa**

NDUFS1 Antibody (Internal) - Additional Information

Gene ID 4719

Other Names
NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial, 1.6.5.3, 1.6.99.3, Complex I-75kD, CI-75kD, NDUFS1

Target/Specificity
Human NDUFS1.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
NDUFS1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

NDUFS1 Antibody (Internal) - Protein Information

Name NDUFS1

Function
Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:30879903, PubMed:31557978). Essential for catalysing the entry and efficient transfer of electrons within complex I (PubMed:31557978). Plays a key role in the assembly and stability of complex I and participates in the association of complex I with ubiquinol-cytochrome reductase complex (Complex III) to form supercomplexes (PubMed:30879903, PubMed:<a

href="http://www.uniprot.org/citations/31557978" target="_blank">31557978).

Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P15690}; Matrix side {ECO:0000250|UniProtKB:P15690}

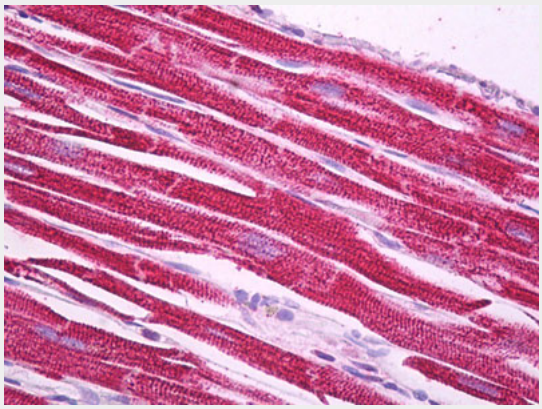
NDUFS1 Antibody (Internal) - Protocols

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

NDUFS1 Antibody (Internal) - Images

NDUFS1 antibody (0.3 ug/ml) staining of Human Heart lysate (35 ug protein/ml in RIPA buffer).



Anti-NDUFS1 antibody IHC of human heart.

NDUFS1 Antibody (Internal) - Background

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I)

that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone (By similarity). This is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized.

NDUFS1 Antibody (Internal) - References

Chow W.,et al.Eur. J. Biochem. 201:547-550(1991).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Lubec G.,et al.Submitted (DEC-2008) to UniProtKB.