

NDUFS1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51801**Specification**

NDUFS1 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	P28331
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75 KDa

NDUFS1 Antibody - Additional Information**Gene ID** 4719**Other Names**

NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial, Complex I-75kD, CI-75kD, NDUFS1

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NDUFS1. The exact sequence is proprietary.

Dilution

WB~~1:1000

ICC~~N/A

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

NDUFS1 Antibody - 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](http://www.uniprot.org/citations/30879903), PubMed: [31557978](http://www.uniprot.org/citations/31557978) target="_blank">31557978). Essential for catalysing the entry and efficient transfer of electrons within complex I (PubMed: [31557978](http://www.uniprot.org/citations/31557978) target="_blank">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:31557978).

Cellular Location

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

NDUFS1 Antibody - 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](#)

NDUFS1 Antibody - Images

NDUFS1 Antibody - 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 - 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.