

# NDUFS1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51801

## Product Information

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Application	WB, ICC
Primary Accession	<a href="#">P28331</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79468

## Additional Information

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Gene ID	4719
Other Names	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial, Complex I-75kD, CI-75kD, NDUFS1
Dilution	WB~~1:1000 ICC~~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

## Protein Information

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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: <a href="#">30879903</a> , PubMed: <a href="#">31557978</a> ). Essential for catalysing the entry and efficient transfer of electrons within complex I (PubMed: <a href="#">31557978</a> ). 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: <a href="#">30879903</a> , PubMed: <a href="#">31557978</a> ).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250 UniProtKB:P15690}; Matrix side {ECO:0000250 UniProtKB:P15690}

## Background

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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.

## References

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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.

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