

Product Name: NDUS8 Rabbit Polyclonal Antibody
Catalog #: APRab14524



Summary

Production Name	NDUS8 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NDUFS8
Alternative Names	
Gene ID	4728.0
SwissProt ID	O00217.Synthesized peptide derived from human protein . at AA range: 90-170

Application

Dilution Ratio	WB 1:500-2000 ELISA 1:5000-20000
Molecular Weight	23kD

Background

This gene encodes a subunit of mitochondrial NADH:ubiquinone oxidoreductase, or Complex I, a multimeric enzyme of the respiratory chain responsible for NADH oxidation, ubiquinone reduction, and the ejection of protons from mitochondria.

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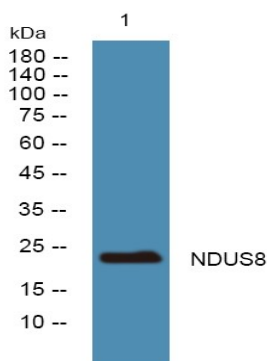


The encoded protein is involved in the binding of two of the six to eight iron-sulfur clusters of Complex I and, as such, is required in the electron transfer process. Mutations in this gene have been associated with Leigh syndrome. [provided by RefSeq, Mar 2010],catalytic activity:NADH + acceptor = NAD(+) + reduced acceptor.,catalytic activity:NADH + ubiquinone = NAD(+) + ubiquinol.,cofactor:Binds 2 4Fe-4S clusters per subunit.,disease:Defects in NDUS8 are a cause of Leigh syndrome (LS) [MIM:256000]. LS is a severe neurological disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions.,function: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). May donate electrons to ubiquinone.,similarity:Belongs to the complex I 23 kDa subunit family.,similarity:Contains 2 4Fe-4S ferredoxin-type domains.,subunit:Mammalian complex I is composed of 45 different subunits.,

Research Area

Oxidative phosphorylation;Alzheimer's disease;Parkinson's disease;Huntington's disease;

Image Data



Western blot analysis of lysates from Jarkat cells, primary antibody was diluted at 1:1000, 4°over night

Note

For research use only.