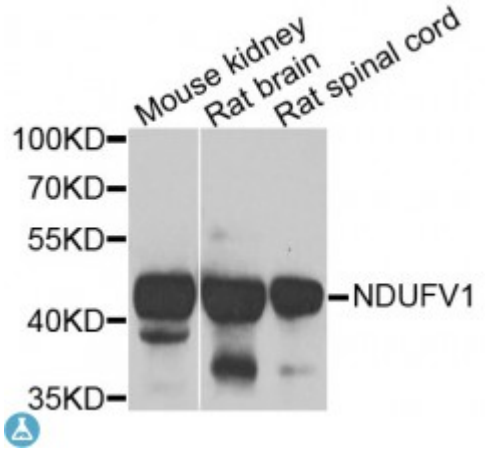
Anti-NDUFV1 Antibody



Description	The mitochondrial respiratory chain provides energy to cells via oxidative phosphorylation and consists of four membrane-bound electron-transporting protein complexes (I-IV) and an ATP synthase (complex V). This gene encodes a 51 kDa subunit of the NADH:ubiquinone oxidoreductase complex I; a large complex with at least 45 nuclear and mitochondrial encoded subunits that liberates electrons from NADH and channels them to ubiquinone. This subunit carries the NADH-binding site as well as flavin mononucleotide (FMN)- and Fe-S-biding sites. Defects in complex I are a common cause of mitochondrial dysfunction; a syndrome that occurs in approximately 1 in 10,000 live births. Mitochondrial complex I deficiency is linked to myopathies, encephalomyopathies, and neurodegenerative disorders such as Parkinson's disease and Leigh syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Model	STJ115296
Host	Rabbit
Reactivity	Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human NDUFV1 (NP_009034.2).
Gene ID	4723
Gene Symbol	NDUFV1
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	NADH dehydrogenase flavoprotein 1 mitochondrial
Molecular Weight	50.817 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:7716OMIM:161015Reactome:R-HSA-611105
Alternative Names	NADH dehydrogenase flavoprotein 1 mitochondrial
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 ,
Cellular Localization	Mitochondrion inner membrane