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NDUFV1

Reactivity: Human Mouse Rat

Tested applications:WB IHC IP

Recommended Dilution:WB 1:200 - 1:2000 IHC 1:20 - 1:200 IP 1:20 - 1:50

Calculated MW:51kDa

Observed MW: Refer to figures

Immunogen:

A synthetic Peptide of human NDUFV1

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

i

Synonym:

UQOR1; CI-51K; CI51KD;

Catalog #:A3984

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:4723

Isotype: IgG

Swiss Prot:P49821

Purity: Affinity purification

For research use only.

Background:

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.

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