

A23165

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NDUFV1 Rabbit mAb

Catalog No.: A23165 **Recombinant**

Basic Information

Observed MW

51kDa

Calculated MW

51kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

WB, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC57616

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-binding 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.

Recommended Dilutions

WB 1:2000 - 1:20000

IHC-P 1:100 - 1:500

Immunogen Information

Gene ID

4723

Swiss Prot

P49821

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 72-420 of human NDUFV1 (NP_009034.2).

Synonyms

UQOR1; CI-51K; CI51KD; MC1DN4; NDUFV1

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

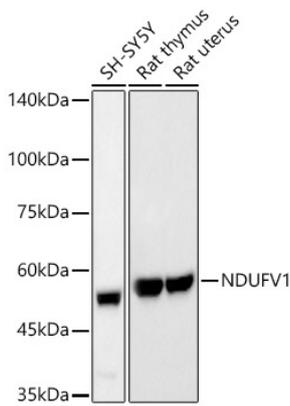
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

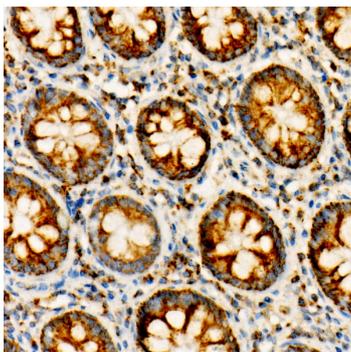
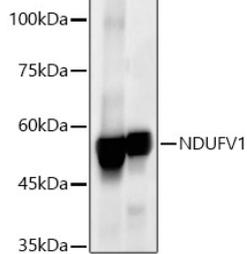
Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates, using NDUFV1 Rabbit mAb (A23165) at 1:20000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.

Western blot analysis of various lysates, using NDUFV1 Rabbit mAb (A23165) at 1:20000 dilution.
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Blocking buffer: 3% nonfat dry milk in TBST.
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Exposure time: 90s.



Immunohistochemistry analysis of paraffin-embedded human colon using NDUFV1 Rabbit mAb (A23165) at dilution of 1:300 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.