

NDUFV2 Polyclonal Antibody

Catalog No: YT3022

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: NDUFV2

Fields: >>Oxidative phosphorylation;>>Metabolic

P19404

Q9D6J6

pathways;>>Thermogenesis;>>Retrograde endocannabinoid signaling;>>Non-

alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson

disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy

Gene Name: NDUFV2

Protein Name: NADH dehydrogenase [ubiquinone] flavoprotein 2 mitochondrial

Human Gene Id: 4729

Human Swiss Prot

No:

Mouse Gene Id: 72900

Mouse Swiss Prot

No:

Rat Gene Id: 81728

Rat Swiss Prot No: P19234

Immunogen: The antiserum was produced against synthesized peptide derived from human

NDUFV2. AA range:20-69

Specificity: NDUFV2 Polyclonal Antibody detects endogenous levels of NDUFV2 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

1/3



Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 27kD

Cell Pathway: Oxidative phosphorylation; Alzheimer's disease; Parkinson's disease; Huntington's

disease;

Background: The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial

respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. This gene encodes the 24 kDa subunit of complex I, and is involved in electron transfer. Mutations in this gene are implicated in Parkinson's disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A non-transcribed pseudogene of this locus is found on chromosome 19. [provided

by RefSeq, Oct 2009],

Function: catalytic activity:NADH + acceptor = NAD(+) + reduced acceptor.,catalytic

activity:NADH + ubiquinone = NAD(+) + ubiquinol.,cofactor:Binds 1 2Fe-2S cluster .,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.,similarity:Belongs to the complex I 24 kDa subunit family.,subunit:Complex I is composed of 45 different subunits. This is a

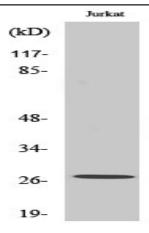
component of the flavoprotein-sulfur (FP) fragment of the enzyme.,

Subcellular Location :

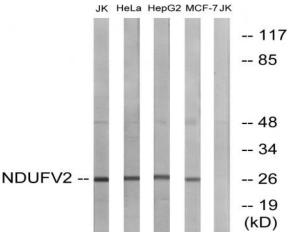
Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.

Expression: Bone, Lung,

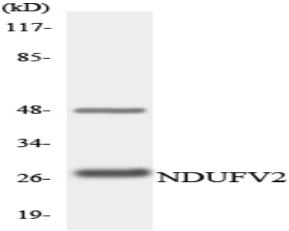
Products Images



Western Blot analysis of various cells using NDUFV2 Polyclonal Antibody



Western blot analysis of lysates from Jurkat, HeLa, HepG2, and MCF-7 cells, using NDUFV2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using NDUFV2 antibody.