Datasheet for ABIN6144498

anti-NDUFV1 antibody (AA 1-250)

4 Images

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Overview

Quantity:	100 µL
Target:	NDUFV1
Binding Specificity:	AA 1-250
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NDUFV1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human NDUFV1 (NP_009034.2).
Sequence:	MLATRRLLGW SLPARVSVRF SGDTTAPKKT SFGSLKDEDR IFTNLYGRHD WRLKGSLSRG DWYKTKEILL KGPDWILGEI KTSGLRGRGG AGFPTGLKWS FMNKPSDGRP KYLVVNADEG EPGTCKDREI LRHDPHKLLE GCLVGGRAMG ARAAYIYIRG EFYNEASNLQ VAIREAYEAG LIGKNACGSG YDFDVFVVRG AGAYICGEET ALIESIEGKQ GKPRLKPPFP ADVGVFGCPT TVANVETVAV
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

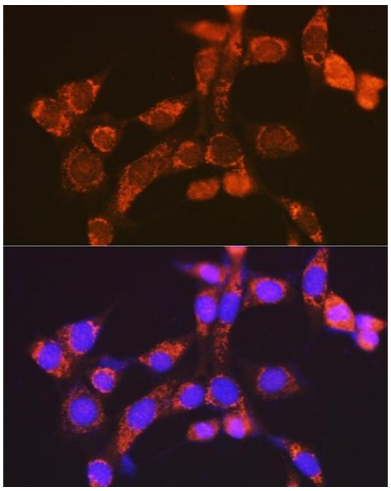
Target:	NDUFV1
Alternative Name:	NDUFV1 (NDUFV1 Products)
Background:	The mitochondrial respiratory chain provides energy to cells via oxidative phosphorylation and consists of four membrane-bound electron-transporting protein complexes (I-IV) and an ATP synthase (complex V). This gene encodes a 51 kDa 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.,NDUFV1,CI-51K,CI51KD,UQOR1,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Oxidative phosphorylation,Neuroscience,Neurodegenerative Diseases,NDUFV1
Molecular Weight:	49 kDa/50 kDa
Gene ID:	4723
UniProt:	P49821

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

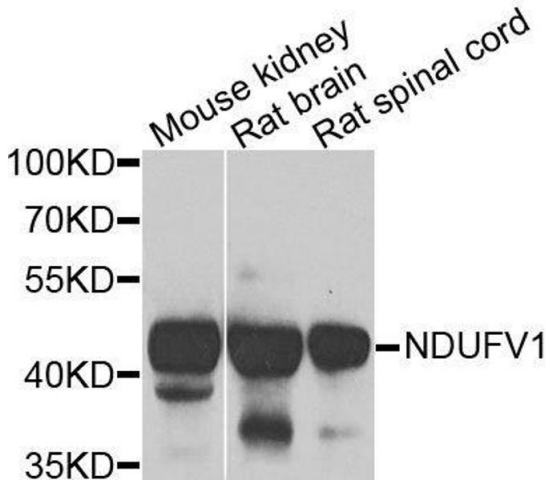
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



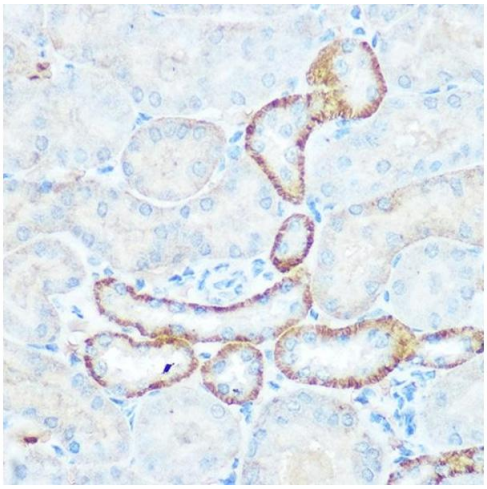
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using NDUFV1 Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using NDUFV1 antibody.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded mouse kidney using NDUFV1 Rabbit pAb at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Please check the product details page for more images. Overall 4 images are available for ABIN6144498.