

Datasheet for ABIN2786794
anti-NDUFS1 antibody (Middle Region)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	NDUFS1
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Cow, Rabbit, Dog, Horse, Goat, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NDUFS1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human NDUFS1
Sequence:	TPPGLAREDW KIIRALSEIA GMTLPYDTLD QVRNRLEEVS PNLVRYDDIE
Predicted Reactivity:	Cow: 100%, Dog: 93%, Goat: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against NDUFS1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NDUFS1
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Target Details

Alternative Name:	NDUFS1 (NDUFS1 Products)
Background:	<p>The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency.</p> <p>Alias Symbols: CI-75Kd, MGC26839, PRO1304, CI-75k</p> <p>Protein Interaction Partner: SUMO2, HSFY1, UBC, MDM2, RNF2, KDM1A, FBXO6, VCAM1, BTK, Htt, NDUFS7, RHOT2, NDUFA12, TMEM126B, MRPL13, STX12, SEC24C, SDHB, RPL27, RAB5B, OPA1, NDUFV3, NDUFV2, NDUFS8, NDUFV1, NDUFS2, NDUFB10, NDUFB9, NDUFB5, NDUFA9, CPT1A, ATP5C1, ATP5B, CUL3, SIRT7, MY</p> <p>Protein Size: 727</p>
Molecular Weight:	77 kDa
Gene ID:	4719
NCBI Accession:	NM_005006 , NP_004997
UniProt:	P28331

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 727 AA
Restrictions:	For Research Use only

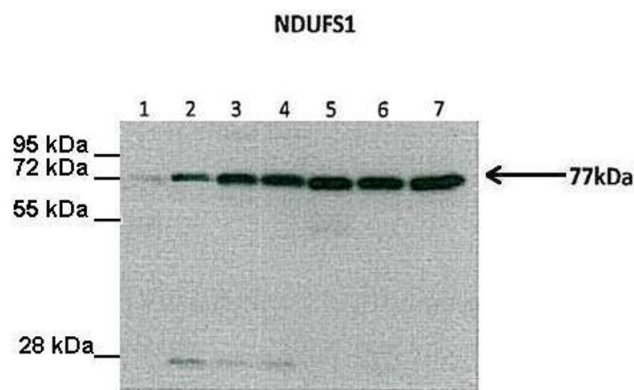
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

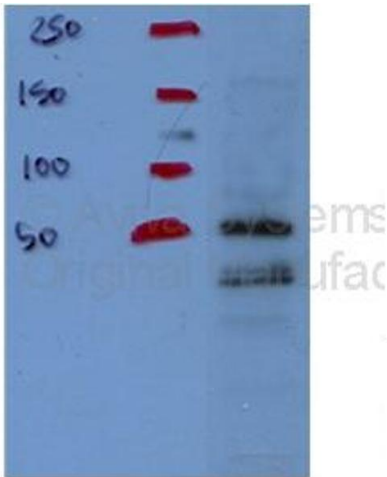
Images



See Immunoblot 4 Data and Customer Feedback for more information

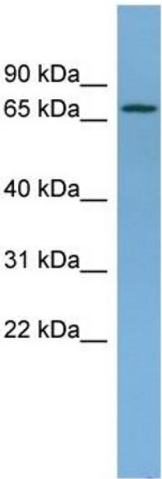
Western Blotting

Image 1. Lanes: Lane1: 30 ug Human liver Lane2: 30 ug Rat liver Lane3: 30 ug Mouse (wild-type) liver Lane4: 30 ug Mouse [AMPK alpha 1/2(-/-)] liver Lane5: 30 ug Human muscle Lane6: 30 ug Rat muscle Lane7: 30 ug Mouse muscle Primary Antibody Dilution: 1:1000 Secondary Antibody: Secondary Antibody Dilution: 1:10000 Gene Name: NDUFS1 Submitted by: Dr. Bruno Guigas, PhD, Dept. of Molecular Cell Biology, Leiden University Medical Center



Western Blotting

Image 2. nuclear lysates



Western Blotting

Image 3. WB Suggested Anti-NDUFS1 Antibody Titration:
0.2-1 ug/mlELISA Titer: 1:1562500Positive Control: Fetal
Liver