Datasheet for ABIN2783269

anti-ATP5B antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	ATP5B
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Zebrafish (Danio rerio), Saccharomyces cerevisiae, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human ATP5B
Sequence:	MGKLVPLKET IKGFQQILAG EYDHLPEQAF YMVGPIEEAV AKADKLAEEH
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 77%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against ATP5B. It was validated on Western Blot using a cell lysate as a positive control. Catalog ABIN973616 can be used a blocking peptide for this product.
Purification:	Protein A purified

Target Details

Target:	ATP5B
Alternative Name:	ATP5B (ATP5B Products)
Background:	ATP5B is a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). ATP5B is the beta subunit of the catalytic core.This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: ATPMB, ATPSB, MGC5231 Protein Interaction Partner: FUS, FDX1, ATP5A1, HUWE1, ATPAF2, TRIM63, TRIM55, SPRTN, STAU1, GRSF1, UBC, MDM2, ASB5, ASB11, SUZ12, RNF2, EZH2, BMI1, GBP1, ADRB2, TERT, vpu, UBL4A, WHSC1, VCAM1, PPP1CC, ITGA4, FN1, ESR1, ATF2, BTK, YWHAE, SUMO2, CA9, FMNL1, ATP5O, ATP6V1B2, ATP5C1, AT Protein Size: 529
Molecular Weight:	52 kDa
Gene ID:	506
NCBI Accession:	NM_001686, NP_001677
UniProt:	P06576
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

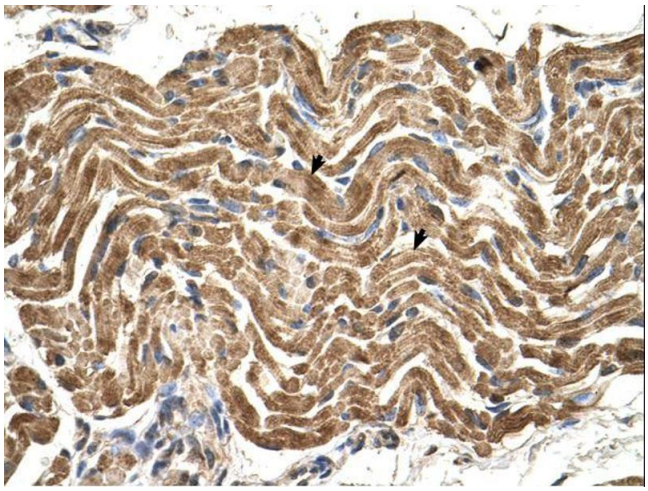
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 529 AA
Restrictions:	For Research Use only

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
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.

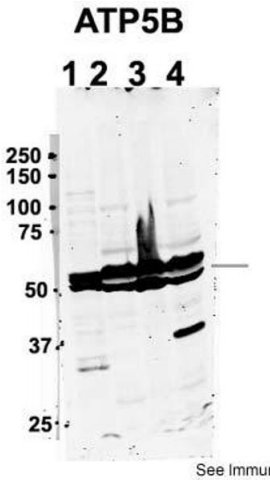
Publications

Product cited in:	Lazrek, Goffard, Schanen, Karquel, Bocket, Lion, Devaux, Hedouin, Gosset, Hober: "Detection of hepatitis C virus antibodies and RNA among medicolegal autopsy cases in Northern France." in: **Diagnostic microbiology and infectious disease**, Vol. 55, Issue 1, pp. 55-8, (2006) (PubMed).



Immunohistochemistry

Image 1. Titration:2 ug/ml Positive Control:Human brain stem cells



See Immunoblot 2 Data for more information.

Western Blotting

Image 2. Sample Type: 1. Human NT-2 cells (60ug)

2. and 3. mouse brain extracts (80ug)

4. rat brain extract (80ug)

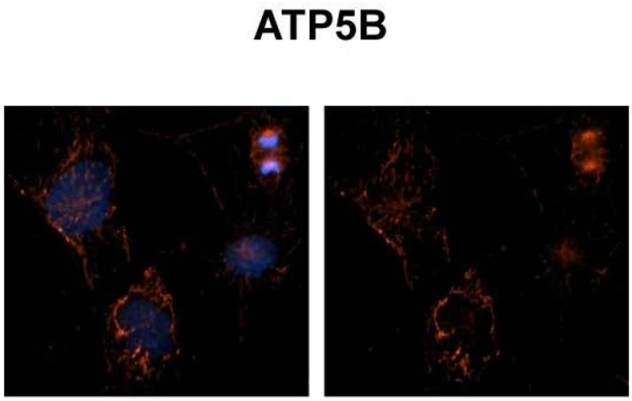
Primary Antibody Dilution: 2ug/ml

Secondary Antibody: IRDye 800CW goat anti-rabbit from Li-COR Bioscience

Secondary Antibody Dilution: 1: 20,000

Image Submitted by: Yuzhi Chen

University of Arkansas for Medical Science



See Immunohistochemistry 1 Data and Customer Feedback tab for more information.

Immunohistochemistry

Image 3. Sample Type: NT2 cells

Red: Antibody

Blue: DAPI

Primary Dilution: 1ug/50ul antibody

Secondary Antibody: Alexa goat anti-rabbit 594

Image Submitted by: Yuzhi Chen, University of Arkansas for Medical Sciences

Please check the product details page for more images. Overall 7 images are available for ABIN2783269.