

Datasheet for ABIN2778685

anti-ATP5G2 antibody (N-Term)



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1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	ATP5G2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Pig, Sheep, Dog, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5G2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ATP5G2
Sequence:	SRPLSAVLK RPEILTDESL SSLAVSCPLT SLVSSRSFQT SAISRDIDTA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 92%, Horse: 92%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 92%, Rat: 100%, Sheep: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against ATP5G2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ATP5G2
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Target Details

Alternative Name:	ATP5G2 (ATP5G2 Products)
Background:	ATP5G2 is a subunit of mitochondrial ATP synthase. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, F0, 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 single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). There are three separate genes which encode subunit c of the proton channel and they specify precursors with different import sequences but identical mature proteins. ATP5G2 is one of three precursors of subunit c. 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, F0, 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 single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). There are three separate genes which encode subunit c of the proton channel and they specify precursors with different import sequences but identical mature proteins. The protein encoded by this gene is one of three precursors of subunit c. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene has multiple pseudogenes. Alias Symbols: ATP5A Protein Interaction Partner: XRN1, TDP2, UBC, ATP13A2, Protein Size: 141
Molecular Weight:	15 kDa
Gene ID:	517
NCBI Accession:	NM_001002031 , NP_001002031
UniProt:	Q06055
Pathways:	Proton Transport , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
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Application Details

Comment:	Antigen size: 157 AA
Restrictions:	For Research Use only

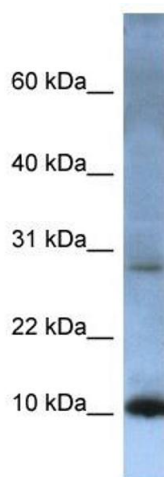
Handling

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:	Nath: "Cell biology: pathogen propulsion." in: Nature , Vol. 427, Issue 6973, pp. 407, (2004) (PubMed).
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Images



Western Blotting

Image 1. WB Suggested Anti-ATP5G2 Antibody Titration:
0.2-1 ug/ml Positive Control: Human heart