Datasheet for ABIN2855894

anti-ATP5G1 antibody (Center)

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Overview

Quantity:	100 µL
Target:	ATP5G1
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5G1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the center region of human ATP5G1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Sheep (Ovine), Rhesus Monkey, Cow (Bovine)
Cross-Reactivity (Details):	Mouse (80 %), Sheep (86 %), Rhesus Monkey (93 %), Bovine (85 %)
Characteristics:	Rabbit polyclonal antibody to ATP synthase C1(mitochondrial) (ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C1 (subunit 9)) ATP5G1 antibody [N1C1]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	ATP5G1
Alternative Name:	ATP5G1 (ATP5G1 Products)
Background:	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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified. Cellular Localization: Mitochondrion membrane
Molecular Weight:	14 kDa
Gene ID:	516
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Suggested dilution Reference Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceWestern blot1:500-1:3000*
Comment:	Positive Control: Molt-4 , Raji
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS, 40 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)

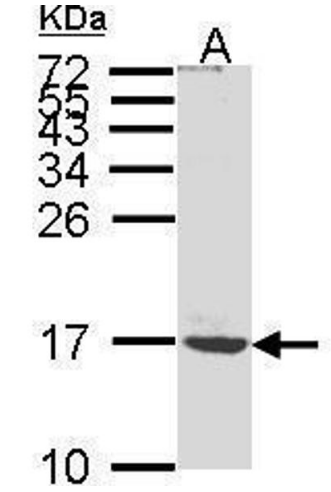
Handling

Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

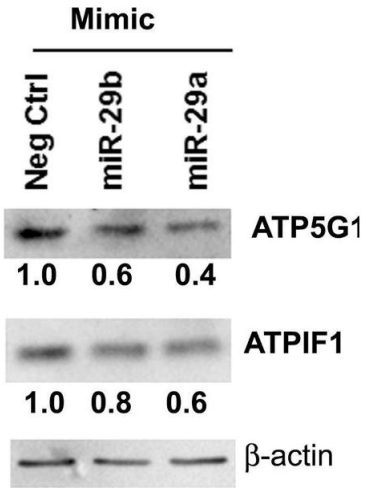
Product cited in:	Shirozu, Iwano, Ogiso, Suzuki, Balboula, Bai, Kawahara, Kimura, Takahashi, Rulan, Kim, Yanagawa, Nagano, Imakawa, Takahashi: "Estrous cycle stage-dependent manner of type I interferon-stimulated genes induction in the bovine endometrium." in: **The Journal of reproduction and development**, Vol. 63, Issue 3, pp. 211-220, (2018) (PubMed).

Images



Western Blotting

Image 1. WB Image Sample (30µg whole cell lysate) A:MOLT4 , 15% SDS PAGE antibody diluted at 1:1000



Western Blotting

Image 2. miR-29-b-1/a downregulate ATP5G1 and ATPIF1 protein expression in LCC9 breast cancer cells. LCC9 cells were grown in hormonally depleted medium and transfected with mimic negative control (Neg Ctrl), miR-29b mimic, or miR-29a mimic for 48h. ATP5G1 and ATPIF1 and β-actin (normalizer) was examined in WCE (10 µg protein/lane). These images were cropped from full-length blots (Supplementary Figs 13-15). The same blot was stripped

and reprobed for each protein. Values are ratios of ATP5G1/ β-actin or ATPIF1/ β-actin with the Neg Ctrl set to one. This blot if from one experiment. - figure provided by CiteAb. Source: PMID28701793