

ARG56238 anti-ATP5F1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ATP5F1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP5F1
Species	Human
Immunogen	Recombinant protein of Human ATP5F1
Conjugation	Un-conjugated
Alternate Names	PIG47; ATP synthase F(0) complex subunit B1, mitochondrial; ATP synthase proton-transporting mitochondrial F(0) complex subunit B1; ATP synthase subunit b; ATPase subunit b

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	
Observed Size	~ 27 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 11950 Mouse](#)

[GeneID: 515 Human](#)

[Swiss-port # P24539 Human](#)

[Swiss-port # Q9CQQ7 Mouse](#)

Gene Symbol

ATP5F1

Gene Full Name

ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit B1

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, F_o, 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 encodes the b subunit of the proton channel. [provided by RefSeq, Jul 2008]

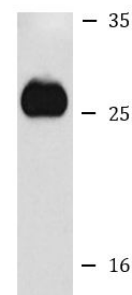
Function

Mitochondrial membrane ATP synthase (F₁F₀ ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F₁ - containing the extramembraneous catalytic core, and F₀ - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F₁ is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F₀ domain and the peripheral stalk, which acts as a stator to hold the catalytic alpha₃beta₃ subcomplex and subunit a/ATP6 static relative to the rotary elements. [UniProt]

Calculated Mw

29 kDa

Images



HepG2

ARG56238 anti-ATP5F1 antibody WB image

Western blot: HepG2 cell lysate stained with ARG56238 anti-ATP5F1 antibody.