BT LAB
Bioassay Technology Laboratory
Optimize Your Research

ATP5G3 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP00739
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human ATP5G3. AA range:1-50
Mol wt	14693
Species reactivity	Human, Rat
Clonality	Polyclonal
Recommended application	IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	ATP5G3 Antibody
Synonyms	ATP5G3; ATP synthase lipid-binding protein; mitochondrial; ATP synthase proteolipid P3; ATPase protein 9; ATPase subunit c

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

ATP5G3 (ATP synthase, H+ transporting, mitochondrial Fo complex subunit C3) 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). ATP5G3 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 different proteins have been identified.

Recommended Dilution

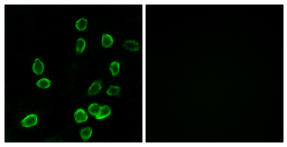
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

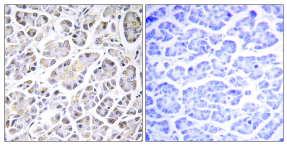
ELISA: 1: 40000

Not yet tested in other applications.

Images



Immunofluorescence analysis of A549 cells, using ATP5G3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human pancreas tissue, using ATP5G3 Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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