

AP43147PU-N**Polyclonal Antibody to ATP5G2 - Purified****Alternate names:**

ATP synthase lipid-binding protein, ATP synthase proteolipid P2, ATPase protein 9, ATPase subunit c, mitochondrial ATP synthase F(0) complex subunit C2, mitochondrial ATP synthase lipid-binding protein

Quantity:

50 µg

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.

Uniprot ID:

[Q06055](#)

NCBI:

[NP_001002031](#)

GeneID:

[517](#)

Host:

Rabbit

Immunogen:

Synthetic peptide directed towards the N terminal of human ATP5G2

AA Sequence:

SRPLSAVVLKRPEILTDESSLAVSCPLTSLVSSRSFQTSISRDIIDTA

Format:

State: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Purification: Purified using peptide immunoaffinity column

Applications:

Western blotting (0.2 - 1 µg/ml)

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Species Reactivity:
Tested: Human

Expected from sequence similarity: Rat, Pig, Rabbit, Bovine

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Kohler, A., (2004) Nature 427 (6973), 407-408

Pictures:

WB Suggested Anti-ATP5G2 Antibody

Titration: 0.2-1 µg/ml; Positive Control:

Human heart

