

AP43551PU-N**Polyclonal Antibody to ATP5F1 - Aff - Purified****Alternate names:**

ATP synthase F(0) complex subunit B1, ATP synthase proton-transporting mitochondrial F(0) complex subunit B1, ATP synthase subunit b, mitochondrial ATP synthase subunit b

Quantity:

50 µg

Background:

ATP5F1 is 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 encodes the b subunit of the proton channel. 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 encodes the b subunit of the proton channel.

Uniprot ID:

[P24539](#)

NCBI:

[NP_001679](#)

GeneID:

[515](#)

Host:

Rabbit

Immunogen:

Synthetic peptide directed towards the middle region of human ATP5F1

AA Sequence:

VTYRERLYRVYKEVKNRDLDYHISVQNMMRRKEQEHMINWVEKHVVQSIST

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

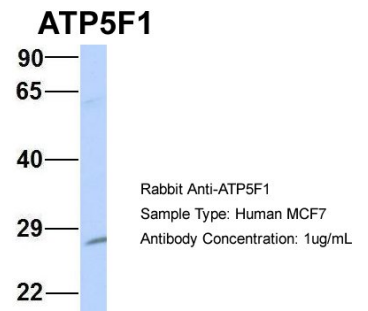
Expected from sequence similarity: Mouse, Pig, Dog

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.

Product Citations: **Originator or purchased from resellers:**
 1. Perciavalle RM, Stewart DP, Koss B, Lynch J, Milasta S, Bathina M, et al. Anti-apoptotic MCL-1 localizes to the mitochondrial matrix and couples mitochondrial fusion to respiration. *Nat Cell Biol.* 2012 Apr 29;14(6):575-83. doi: 10.1038/ncb2488. PubMed PMID: 22544066.

General Readings:
 1. Ewing RM, Chu P, Elisma F, Li H, Taylor P, Climie S, et al. Large-scale mapping of human protein-protein interactions by mass spectrometry. *Mol Syst Biol.* 2007;3:89. Epub 2007 Mar 13. PubMed PMID: 17353931.

Pictures: Human MCF7; Host: Rabbit. Target Name: NOP56 . Sample Tissue: MCF7 . Antibody Dilution: 1.0ug/ml. ATP5F1 is supported by BioGPS gene expression data to be expressed in MCF7.; ATP5F1 antibody - middle region (AP43551PU-N) in Human MCF7 cells using Western Blot



Human 721_B; WB Suggested Anti-ATP5F1 Antibody Titration: 0.2-1 ug/ml. ELISA Titer: 1:12500. Positive Control: 721_B cell lysate. ATP5F1 is supported by BioGPS gene expression data to be expressed in 721_B.; ATP5F1 antibody - middle region (AP43551PU-N) in Human 721_B cells using Western Blot

