

**ATP5G1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22100c****Specification**

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**ATP5G1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P05496</a>
Other Accession	<a href="#">P32876</a> , <a href="#">Q9CR84</a> , <a href="#">A1XOS5</a> , <a href="#">Q06645</a> , <a href="#">P17605</a> , <a href="#">P07926</a> , <a href="#">Q06055</a> , <a href="#">P56383</a> , <a href="#">Q5RAP9</a> , <a href="#">Q06646</a> , <a href="#">Q06056</a> , <a href="#">Q3ZC75</a> , <a href="#">P48201</a> , <a href="#">P56384</a> , <a href="#">Q5RFL2</a> , <a href="#">Q71S46</a>
Reactivity	Human, Rat
Predicted	Bovine, Mouse, Pig, Sheep
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	14277

**ATP5G1 Antibody (Center) - Additional Information****Gene ID** 516**Other Names**

ATP synthase F(0) complex subunit C1, mitochondrial, ATP synthase lipid-binding protein, ATP synthase proteolipid P1, ATP synthase proton-transporting mitochondrial F(0) complex subunit C1, ATPase protein 9, ATPase subunit c, ATP5G1

**Target/Specificity**

This ATP5G1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 41-71 amino acids from the Central region of human ATP5G1.

**Dilution**

WB~~1:2000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ATP5G1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**ATP5G1 Antibody (Center) - Protein Information**

**Name** ATP5MC1 ([HGNC:841](#))

**Function** Subunit c, of the mitochondrial membrane ATP synthase complex (F(1)F(0) ATP synthase or Complex V) that 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 (Probable). ATP synthase complex consist of a soluble F(1) head domain - the catalytic core - and a membrane F(1) domain - the membrane proton channel (PubMed:[37244256](#)). These two domains are linked by a central stalk rotating inside the F(1) region and a stationary peripheral stalk (PubMed:[37244256](#)). During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation (Probable). With the subunit a (MT- ATP6), forms the proton-conducting channel in the F(0) domain, that contains two crucial half-channels (inlet and outlet) that facilitate proton movement from the mitochondrial intermembrane space (IMS) into the matrix (PubMed:[37244256](#)). Protons are taken up via the inlet half- channel and released through the outlet half-channel, following a Grotthuss mechanism (PubMed:[37244256](#)).

**Cellular Location**

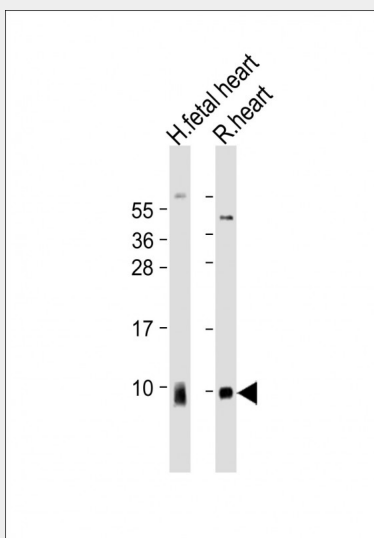
Mitochondrion membrane; Multi-pass membrane protein

**ATP5G1 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ATP5G1 Antibody (Center) - Images**



All lanes : Anti-ATP5G1 Antibody (Center) at 1:2000 dilution Lane 1: human fetal heart lysate  
Lane 2: rat heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG,

(H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 14 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **ATP5G1 Antibody (Center) - Background**

Mitochondrial membrane ATP synthase (F(1)F(0) 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, F(1) - containing the extramembraneous catalytic core and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F(0) domain. A homomeric c-ring of probably 10 subunits is part of the complex rotary element.

#### **ATP5G1 Antibody (Center) - References**

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Higuti T.,et al.Biochim. Biophys. Acta 1173:87-90(1993).  
Wiemann S.,et al.Genome Res. 11:422-435(2001).  
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
Farrell L.B.,et al.Biochem. Biophys. Res. Commun. 144:1257-1264(1987).