

**ATP5C1 (aa27-40) Antibody (internal region, near N-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4111a****Specification**

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**ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">P36542</a>
Other Accession	<a href="#">NP_005165.1</a> , <a href="#">NP_001001973.1</a> , <a href="#">509</a> , <a href="#">11949</a> (mouse), <a href="#">116550</a> (rat)
Reactivity	<b>Rat</b>
Predicted	<b>Human, Mouse, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>32996</b>

**ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - Additional Information****Gene ID** 509**Other Names**

ATP synthase subunit gamma, mitochondrial, F-ATPase gamma subunit, ATP5C1, ATP5C, ATP5CL1

**Dilution**

WB~~1:1000

Pep-ELISA~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ATP5C1 (aa27-40) Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - Protein Information****Name** ATP5F1C ([HGNC:833](#))**Function**

Subunit gamma, 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 (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). 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:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). These two domains are linked by a central stalk rotating inside the F(1) region and a stationary peripheral stalk (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). 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). In vivo, can only synthesize ATP although its ATP hydrolase activity can be activated artificially in vitro (By similarity). With the central stalk subunit delta, is essential for the biogenesis of F(1) catalytic part of the ATP synthase complex namely in the formation of F1 assembly intermediate (PubMed:<a href="http://www.uniprot.org/citations/29499186" target="\_blank">29499186</a>).

### Cellular Location

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P05631}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05631}; Matrix side {ECO:0000250|UniProtKB:P05631}

### Tissue Location

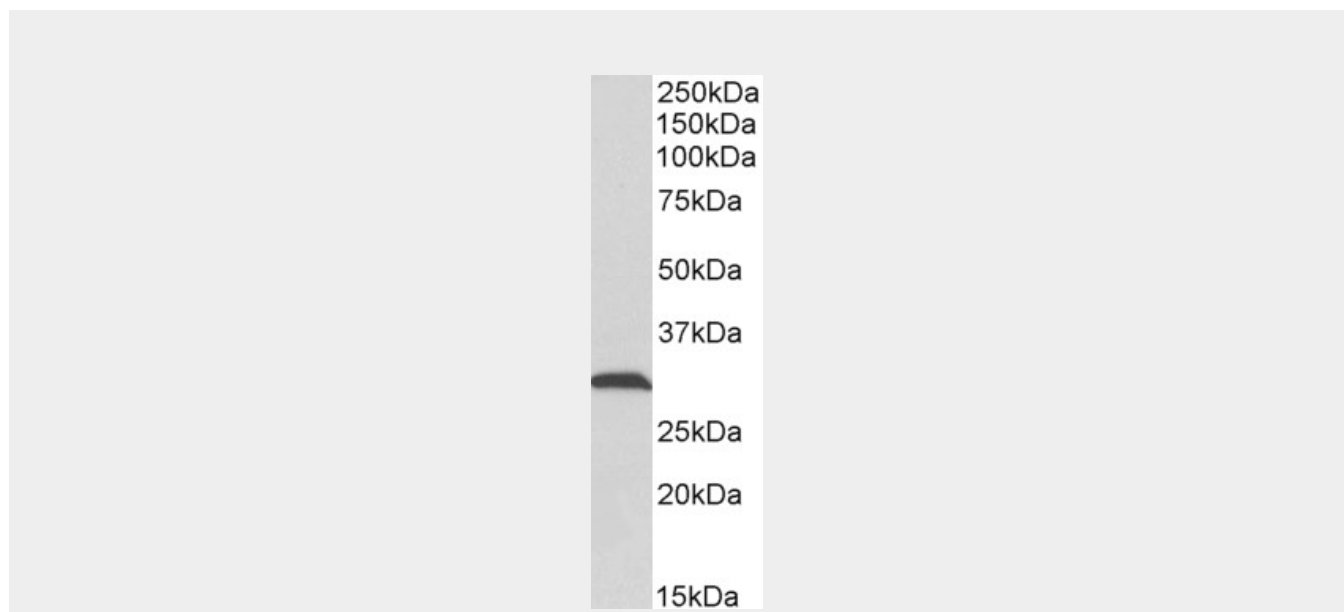
Isoform Heart is expressed specifically in the heart and skeletal muscle, which require rapid energy supply. Isoform Liver is expressed in the brain, liver and kidney. Isoform Heart and Isoform Liver are expressed in the skin, intestine, stomach and aorta

## ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - Protocols

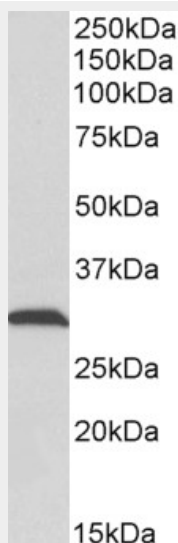
Provided below are standard protocols that you may find useful for product applications.

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

## ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - Images



AF4111a (0.1 µg/ml) staining of Rat Skeletal Muscle lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB12460 (0.1µg/ml) staining of Rat Skeletal Muscle lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - Background**

The immunizing peptide represents the N terminus of the mature protein. This antibody is expected to recognize both reported isoforms (NP\_005165.1; NP\_001001973.1).

#### **ATP5C1 (aa27-40) Antibody (internal region, near N-Term) - References**

Mechanically driven ATP synthesis by F1-ATPase. Itoh H, Takahashi A, Adachi K, Noji H, Yasuda R, Yoshida M, Kinosita K. Nature 2004 Jan 427 (6973): 465-8. PMID: 14749837