

ATP5F1 (aa142-153) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF4114a**Specification**

ATP5F1 (aa142-153) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P24539
Other Accession	NP_001679.2 , 515
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	28909

ATP5F1 (aa142-153) Antibody (internal region) - Additional Information**Gene ID** 515**Other Names**

ATP synthase F(0) complex subunit B1, mitochondrial, ATP synthase proton-transporting mitochondrial F(0) complex subunit B1, ATP synthase subunit b, ATPase subunit b, ATP5F1

Dilution

WB~~1:1000

E~~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

ATP5F1 (aa142-153) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP5F1 (aa142-153) Antibody (internal region) - Protein Information**Name** ATP5PB ([HGNC:840](#))**Synonyms** ATP5F1**Function**

Subunit b, 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:37244256). 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). In vivo, can only synthesize ATP although its ATP hydrolase activity can be activated artificially in vitro (By similarity). Part of the complex F(0) domain (PubMed:37244256). Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements (By similarity).

Cellular Location

Mitochondrion. Mitochondrion inner membrane.

ATP5F1 (aa142-153) Antibody (internal region) - 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](#)

ATP5F1 (aa142-153) Antibody (internal region) - Images



AF4114a (0.03 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ATP5F1 (aa142-153) Antibody (internal region) - References

Energy transduction in ATP synthase. Elston T, Wang H, Oster G. Nature 1998 Jan 391 (6666): 510-3. PMID: 9461222