10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ATP5F1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20527c

Specification

ATP5F1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P24539
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28909**
Antigen Region	**161-195**

ATP5F1 Antibody (Center) - 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

Target/Specificity
This ATP5F1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 161-195 amino acids from the Central region of human ATP5F1.

Dilution
WB~~1:1000

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
ATP5F1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP5F1 Antibody (Center) - Protein Information

Name ATP5PB (HGNC:840)

Synonyms ATP5F1

Function 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 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.

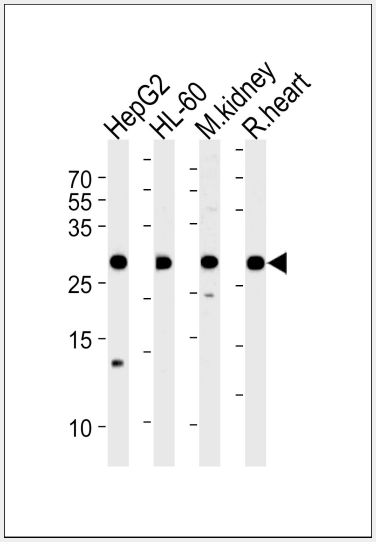
Cellular Location
Mitochondrion. Mitochondrion inner membrane.

ATP5F1 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 Cytomety
- Cell Culture

ATP5F1 Antibody (Center) - Images



ATP5F1 Antibody (Center) (Cat. #AP20527c) western blot analysis in HepG2,HL-60 cell line,mouse kidney and rat heart tissue lysates (35ug/lane).This demonstrates the ATP5F1 antibody detected the ATP5F1 protein (arrow).

ATP5F1 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 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.

ATP5F1 Antibody (Center) - References

Higuti T., et al. Biochem. Biophys. Res. Commun. 178:1014-1020(1991).
Gregory S.G., et al. Nature 441:315-321(2006).
Choudhary C., et al. Science 325:834-840(2009).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).