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

ATP5G2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50739

Specification

ATP5G2 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q06055
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**15,16,21 KDa**
Antigen Region	**20-46**

ATP5G2 Antibody - Additional Information

Gene ID 517

Other Names
ATP synthase F(0) complex subunit C2, mitochondrial, ATP synthase lipid-binding protein, ATP synthase proteolipid P2, ATP synthase proton-transporting mitochondrial F(0) complex subunit C2, ATPase protein 9, ATPase subunit c, ATP5G2

Dilution
WB~~1:1000
IHC~~1:50-100

Format
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

ATP5G2 Antibody - Protein Information

Name ATP5MC2 (HGNC:842)

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. A homomeric c-ring of probably 10 subunits is part of the complex rotary element.

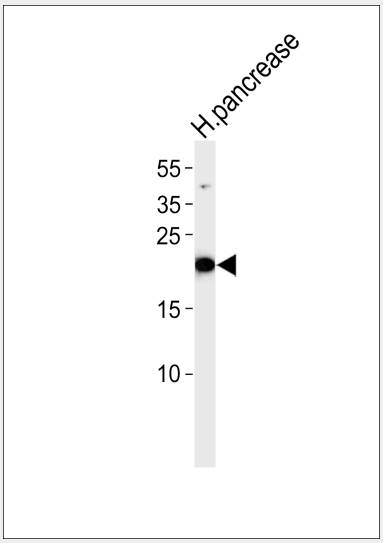
Cellular Location
Mitochondrion membrane; Multi-pass membrane protein

ATP5G2 Antibody - Protocols

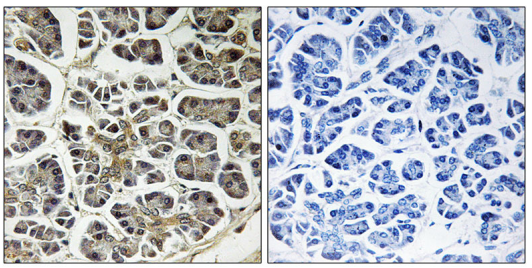
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ATP5G2 Antibody - Images



Western blot analysis of lysates from human pancrease tissue lysate,using ATP5G2 Antibody(AP50739). AP50739 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug.



Immunohistochemistry analysis of paraffin-embedded human pancreas tissue using ATP5G2 antibody.

ATP5G2 Antibody - 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.

ATP5G2 Antibody - References

Dyer M.R.,et al.Biochem. J. 293:51-64(1993).
Higuti T.,et al.Biochim. Biophys. Acta 1173:87-90(1993).
Otsuki T.,et al.DNA Res. 12:117-126(2005).
Scherer S.E.,et al.Nature 440:346-351(2006).
Farrell L.B.,et al.Biochem. Biophys. Res. Commun. 144:1257-1264(1987).