

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°C

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.

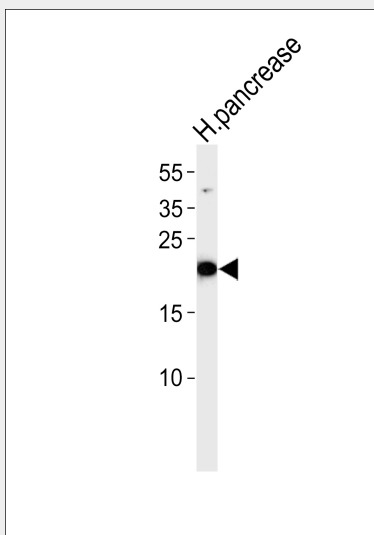
Cellular Location

Mitochondrion membrane; Multi-pass membrane protein

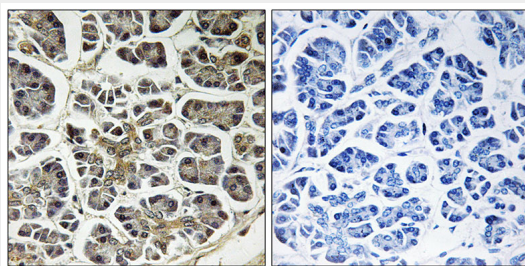
ATP5G2 Antibody - Protocols

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

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

ATP5G2 Antibody - Images

Western blot analysis of lysates from human pancreas 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 35 µg.



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

ATP5G2 Antibody - Background

Mitochondrial membrane ATP synthase (F₁F₀) 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).