

ATP4B Antibody (N-term)
Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5181a

Specification

ATP4B Antibody (N-term) - Product Information

Application	WB, FC, E
Primary Accession	P51164
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Names	RB26168
Calculated MW	33367
Antigen Region	52-78

ATP4B Antibody (N-term) - Additional Information

Gene ID 496

Other Names

Potassium-transporting ATPase subunit beta,
 Gastric H(+)/K(+) ATPase subunit beta,
 Proton pump beta chain, ATP4B

Target/Specificity

This ATP4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-78 amino acids from the N-terminal region of human ATP4B.

Dilution

WB~~1:1000
 FC~~1:10~50

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.

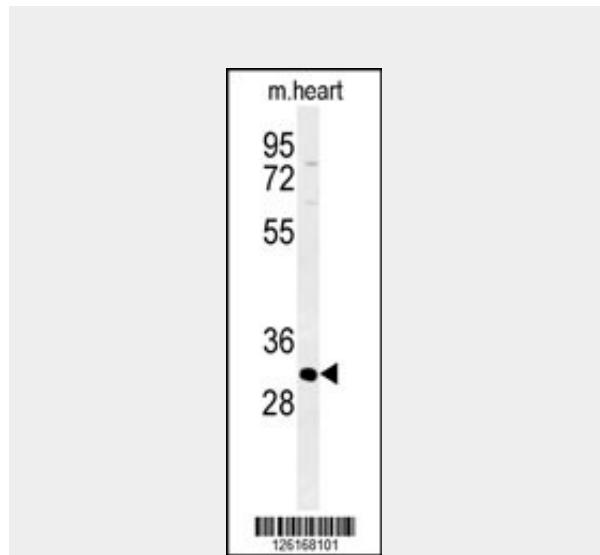
Storage

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

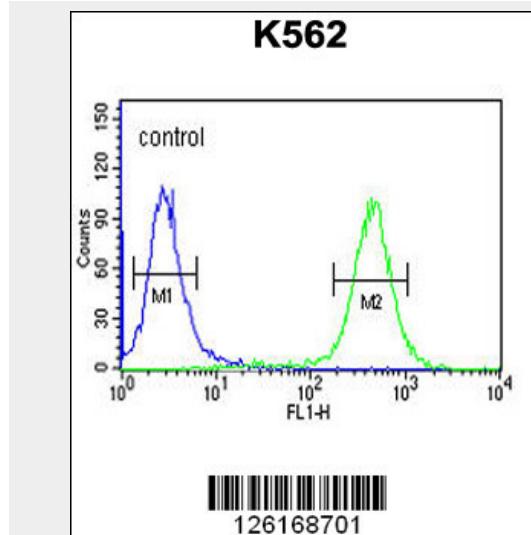
Precautions

ATP4B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP4B Antibody (N-term) - Protein Information



Western blot analysis of ATP4B Antibody (N-term) (Cat. #AP5181a) in mouse heart tissue lysates (35ug/lane). ATP4B (arrow) was detected using the purified Pab.



ATP4B Antibody (N-term) (Cat. #AP5181a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ATP4B Antibody (N-term) - Background

ATP4B belongs to a family of P-type cation-transporting ATPases. The gastric H+,

Name ATP4B

Function

Required for stabilization and maturation of the catalytic proton pump alpha subunit and may also be involved in cell adhesion and establishing epithelial cell polarity.

Cellular Location

Cell membrane; Single-pass type II membrane protein

K+-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H+, K+-ATPase.

ATP4B Antibody (N-term) - References

Bab-Dinitz, E., et al. *Biochemistry* 48(36):8684-8691(2009) Knouff, C.W., et al. *Pharmacogenet. Genomics* 18(12):1051-1057(2008) Oh, J.H., et al. *Mamm. Genome* 16(12):942-954(2005)

ATP4B Antibody (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](#)