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ATP1B2 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19733b

Specification

ATP1B2 Antibody(C-term) - Product Information

Application	**WB,E**
Primary Accession	P14415
Other Accession	P13638, Q8WMG3, P14231, Q28030, NP_001669.3
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**33367**
Antigen Region	**247-276**

ATP1B2 Antibody(C-term) - Additional Information

Gene ID 482

Other Names
Sodium/potassium-transporting ATPase subunit beta-2, Adhesion molecule in glia, AMOG, Sodium/potassium-dependent ATPase subunit beta-2, ATP1B2

Target/Specificity
This ATP1B2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247-276 amino acids from the C-terminal region of human ATP1B2.

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
ATP1B2 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP1B2 Antibody(C-term) - Protein Information

Name ATP1B2

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Function This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-2 subunit is not known.

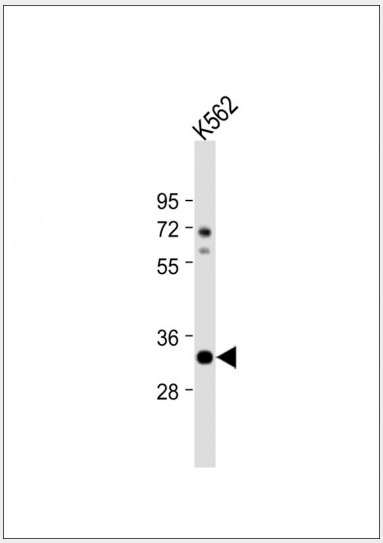
Cellular Location
Cell membrane; Single-pass type II membrane protein

ATP1B2 Antibody(C-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 Cytomety
- Cell Culture

ATP1B2 Antibody(C-term) - Images



Anti-ATP1B2 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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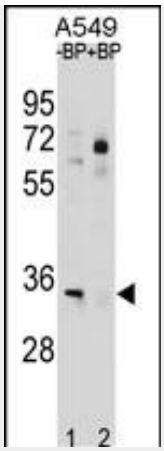

ATP1B2 Antibody (C-term) (Cat. #AP19733b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the ATP1B2 antibody detected the ATP1B2 protein (arrow).

ATP1B2 Antibody(C-term) - Background

The protein encoded by this gene belongs to the family of Na+/K+ and H+/K+ ATPases beta chain proteins, and to the subfamily of Na+/K+ -ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit.

ATP1B2 Antibody(C-term) - References

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Tokhtaeva, E., et al. Biochemistry 48(48):11421-11431(2009)
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