

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

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

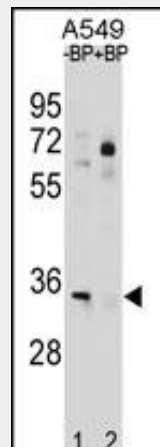
Cell membrane; Single-pass type II membrane protein

ATP1B2 Antibody(C-term) - Protocols

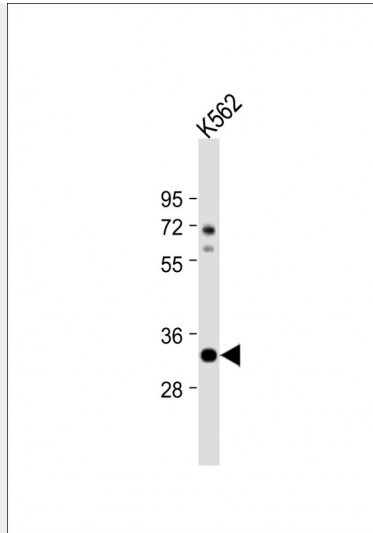
Provided below are standard protocols that you may find useful for product applications.

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

ATP1B2 Antibody(C-term) - Images



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).



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% NFD/MTBST.

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

- Floyd, R.V., et al. *Reprod Sci* 17(4):366-376(2010)
- Guey, L.T., et al. *Eur. Urol.* 57(2):283-292(2010)
- Boer, K., et al. *Brain Pathol.* 20(1):234-244(2010)
- Tokhtaeva, E., et al. *Biochemistry* 48(48):11421-11431(2009)
- Hosgood, H.D. III, et al. *Respir Med* 103(12):1866-1870(2009)