

# ATP1B2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5299

## **Product Information**

**Application** FC, IHC-P, WB

Primary Accession P14415

Other Accession <u>P13638</u>, <u>Q8WMG3</u>, <u>P14231</u>, <u>Q28030</u>

**Reactivity** Human, Mouse **Predicted** Rat, Rabbit, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 33367
Isotype Rabbit IgG
Antigen Source HUMAN

# **Additional Information**

Gene ID 482

Antigen Region 115-141

Other Names ATP1B2; Sodium/potassium-transporting ATPase subunit beta-2;

Sodium/potassium-dependent ATPase subunit beta-2

**Dilution** FC~~1:10~50 IHC-P~~1:100~500 WB~~1:1000

**Target/Specificity** This ATP1B2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 115-141 amino acids from the Central

region of human ATP1B2.

**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 (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

## **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

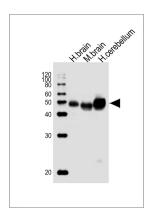
# **Background**

The protein 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.

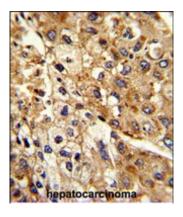
## References

Guey,L.T., et.al., Eur. Urol. 57 (2), 283-292 (2010) Tokhtaeva,E., et.al., Biochemistry 48 (48), 11421-11431 (2009) Hosgood,H.D. et.al., Respir Med 103 (12), 1866-1870 (2009)

# **Images**

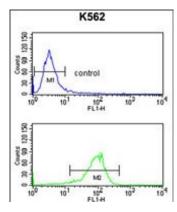


Western blot analysis of lysates from human brain, mouse brain and human cerebellum tissue lysate (from left to right), using ATP1B2 Antibody (Center)(Cat. #AW5299). AW5299 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ATP1B2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ATP1B2 Antibody (Center) (Cat. #AW5299) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.