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# ATP1B2 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AW5299**

## Specification

### ATP1B2 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **FC, IHC-P, WB,E** |
| Primary Accession | P14415 |
| Other Accession | P13638, Q8WMG3, P14231, Q28030 |
| Reactivity | **Human, Mouse** |
| Predicted | **Bovine, Rabbit, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **H=33;M=33;Rat=33 KDa** |
| Isotype | **Rabbit IgG** |
| Antigen Source | **HUMAN** |

### ATP1B2 Antibody (Center) - 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~~1:50~100
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.

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## ATP1B2 Antibody (Center) - 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.

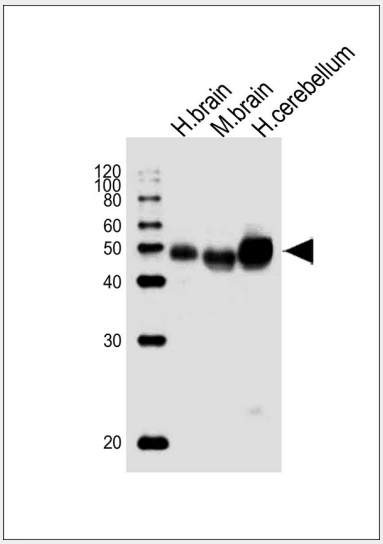
**Cellular Location**
Cell membrane; Single-pass type II membrane protein

## ATP1B2 Antibody (Center) - 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 (Center) - 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.

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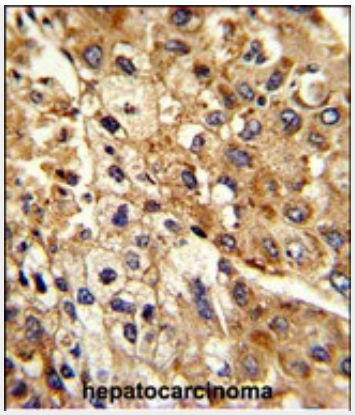
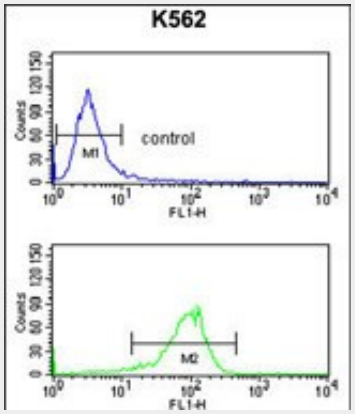



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ATP1B2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




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.

## ATP1B2 Antibody (Center) - 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.

## ATP1B2 Antibody (Center) - 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)