10320 Camino Santa Fe, Suite G
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# ATP1B1 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP5866c**

## Specification

### ATP1B1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P,E** |
| Primary Accession | P05026 |
| Other Accession | NP_001668.1 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **35061** |
| Antigen Region | **112-138** |

### ATP1B1 Antibody (Center) - Additional Information

**Gene ID** 481

**Other Names**
Sodium/potassium-transporting ATPase subunit beta-1, Sodium/potassium-dependent ATPase subunit beta-1, ATP1B1, ATP1B

**Target/Specificity**
This ATP1B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 112-138 amino acids from the Central region of human ATP1B1.

**Dilution**
WB~~1:1000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

**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**
ATP1B1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### ATP1B1 Antibody (Center) - Protein Information

**Name** ATP1B1

**Synonyms** ATP1B

**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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane (PubMed:19694409). Plays a role in innate immunity by enhancing virus-triggered induction of interferons (IFNs) and interferon stimulated genes (ISGs). Mechanistically, enhances the ubiquitination of TRAF3 and TRAF6 as well as the phosphorylation of TAK1 and TBK1 (PubMed:34011520).

**Cellular Location**
Cell membrane; Single-pass type II membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:P07340}; Single-pass type II membrane protein. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:P14094}. Note=Colocalizes with OBSCN at the intercalated disk and sarcolemma in cardiomyocytes. Localizes in long striations at the level of Z and M lines {ECO:0000250|UniProtKB:P14094}

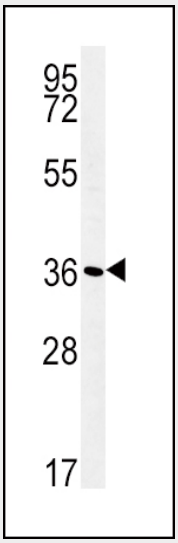
**Tissue Location**
Found in most tissues.

## ATP1B1 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

## ATP1B1 Antibody (Center) - Images




ATP1B1 Antibody (Center) (Cat. #AP5866c) western blot analysis in WiDr cell line lysates (35ug/lane).This demonstrates the ATP1B1 antibody detected the ATP1B1 protein (arrow).

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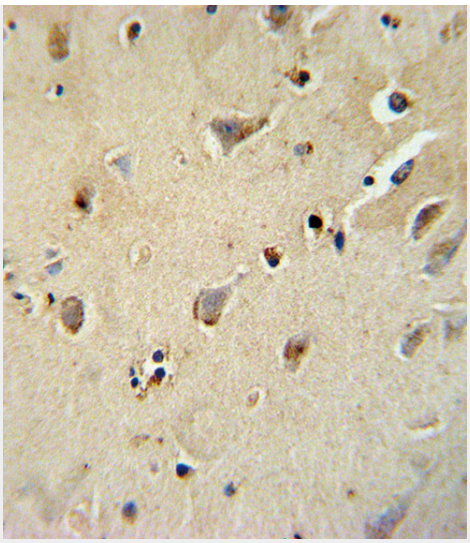

ATP1B1 Antibody (Center) (Cat. #AP5866c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATP1B1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.