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# Anti-ATP1A1 (pS16) Antibody

**Rabbit polyclonal antibody to ATP1A1 (pS16)**
**Catalog # AP60429**

## Specification

### Anti-ATP1A1 (pS16) Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P05023 |
| Other Accession | Q8VDN2 |
| Reactivity | **Human, Mouse, Rat, Rabbit, Pig, Bovine, SARS, Dog** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **112896** |

### Anti-ATP1A1 (pS16) Antibody - Additional Information

**Gene ID** 476

**Other Names**
Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1

**Target/Specificity**
Recognizes endogenous levels of ATP1A1 (pS16) protein.

**Dilution**
WB~~WB (1/500 - 1/1000)

**Format**
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**
Store at -20 °C.Stable for 12 months from date of receipt

### Anti-ATP1A1 (pS16) Antibody - Protein Information

**Name** ATP1A1

**Function**
This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients (PubMed:<a href="http://www.uniprot.org/citations/29499166" target="_blank">29499166</a>, PubMed:<a href="http://www.uniprot.org/citations/30388404" target="_blank">30388404</a>). Could also be part of an osmosensory signaling pathway that senses body-fluid sodium levels and controls

salt intake behavior as well as voluntary water intake to regulate sodium homeostasis (By similarity).

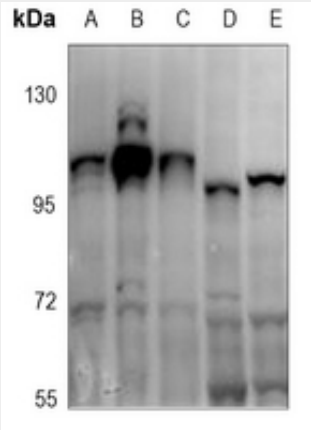
**Cellular Location**
Cell membrane {ECO:0000250|UniProtKB:Q8VDN2}; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P06685}; Multi-pass membrane protein. Cell membrane, sarcolemma; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:P06685}. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

## Anti-ATP1A1 (pS16) Antibody - 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

## Anti-ATP1A1 (pS16) Antibody - Images




Western blot analysis of ATP1A1 (pS16) expression in HEK293T (A), HCT116 (B), Panc1 (C), PC12 (D), CT26 (E) whole cell lysates.

## Anti-ATP1A1 (pS16) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ATP1A1 (pS16). The exact sequence is proprietary.