

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:29499166, PubMed:30388404). 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

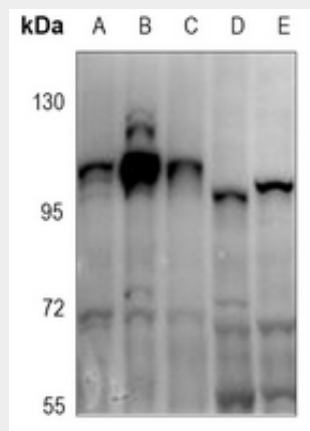
Cell membrane {ECO:0000250|UniProtKB:Q8VDN2}; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P06685}; Multi-pass membrane protein. Cell membrane, sarcolemma; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:P06685}. Melanosome. Note=Identified by 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 Cytometry](#)
- [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.