

**Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 Polyclonal Antibody**  
Catalog # AP71154**Specification****Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P05023</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 Polyclonal Antibody - Additional Information****Gene ID** 476**Other Names**

ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 Polyclonal 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

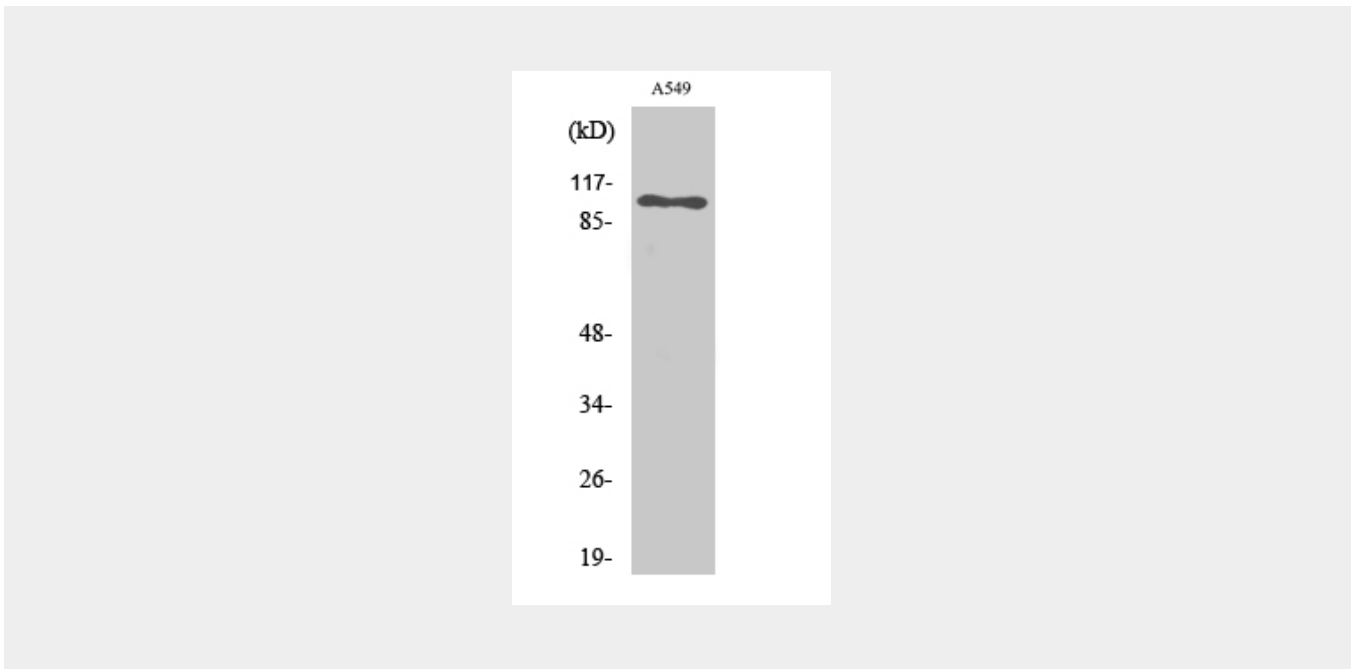
melanosome fractions from stage I to stage IV

### **Na<sup>+</sup>/K<sup>+</sup>-ATPase $\alpha$ 1 Polyclonal 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](#)

### **Na<sup>+</sup>/K<sup>+</sup>-ATPase $\alpha$ 1 Polyclonal Antibody - Images**



### **Na<sup>+</sup>/K<sup>+</sup>-ATPase $\alpha$ 1 Polyclonal Antibody - Background**

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.