

**Sodium Potassium ATPase Antibody**  
Rabbit mAb  
Catalog # AP90212**Specification****Sodium Potassium ATPase Antibody - Product Information**

Application	WB, IHC, FC, ICC
Primary Accession	<a href="#">P05023</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
A1A1; AT1A1; ATP1A1; Na <sup>+</sup> /K <sup>+</sup> transporting; alpha 1 polypeptide; Na <sup>+</sup> /K <sup>+</sup> ATPase 1; Na, K-ATPase 1; Sodium pump 1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	112896 Da

**Sodium Potassium ATPase Antibody - Additional Information**

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Sodium Potassium ATPase</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

**Sodium Potassium ATPase 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

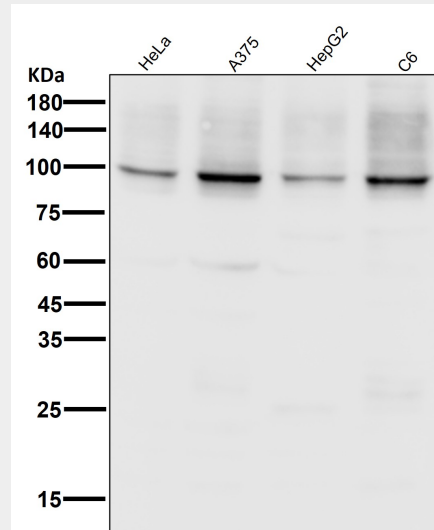
Cell membrane {ECO:0000250|UniProtKB:Q8VDN2}; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:P06685}; Multi-pass membrane protein. Cell membrane, sarcolemma; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:P06685}. Melanosome. Note=Identified by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

#### Sodium Potassium ATPase Antibody - Protocols

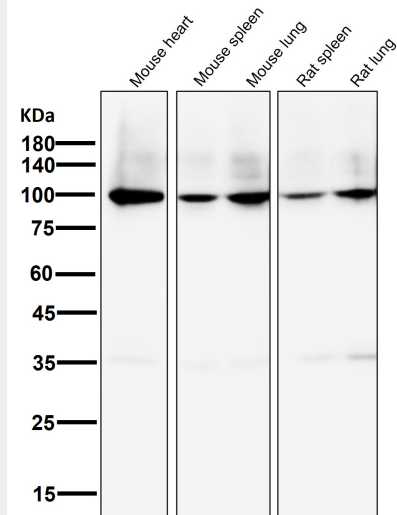
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

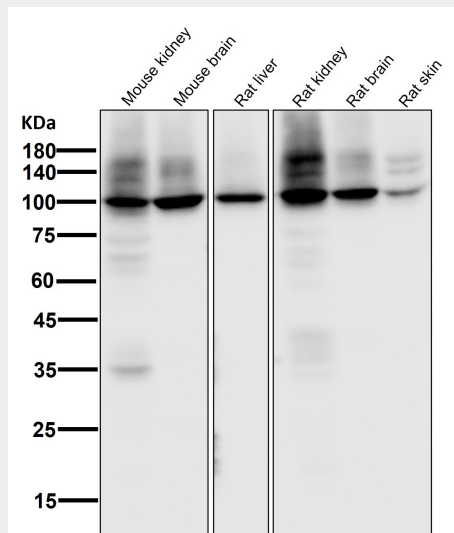
#### Sodium Potassium ATPase Antibody - Images



All lanes use Sodium Potassium ATPase Antibody at 1:50000 dilution for 1 hour at room temperature.



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