10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Sodium Potassium ATPase Antibody

Rabbit mAb
Catalog # AP90212

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	P05023
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	A1A1; AT1A1; ATP1A1; Na+/K+ transporting; alpha 1 polypeptide; Na+/K+ ATPase 1; Na, K-ATPase 1; Sodium pump 1;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	112896

Additional Information

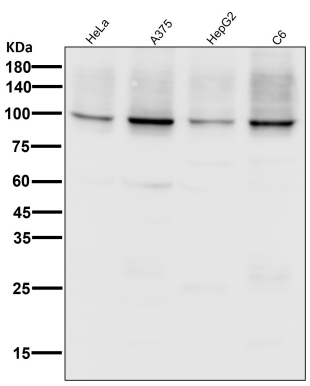
Dilution	WB 1:5000~1:10000 IHC 1:50~1:100 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Sodium Potassium ATPase
Description	This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the 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.
Storage Condition and Buffer	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.

Protein Information

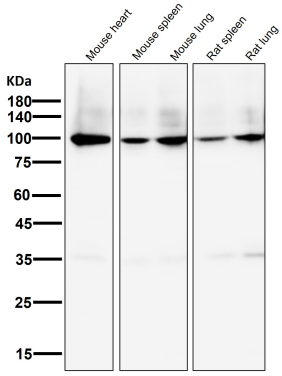
Name	ATP1A1
Function	This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active 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

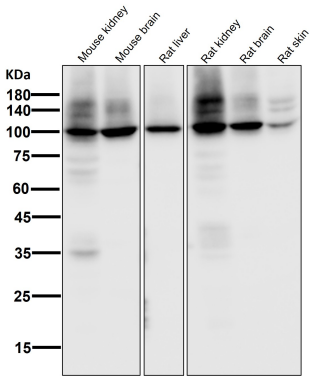
Images



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



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



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

Image not found : 202311/AP90212-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human thyroid carcinoma, using Sodium Potassium ATPase Antibody.