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Rabbit Anti-ATP1A1 antibody

SL4255R

Product Name:	ATP1A1
Chinese Name:	钠钾ATP酶蛋白a1抗体
Alias:	alpha 1 Sodium Potassium ATPase; A1A1; AT1A1; AT1A1_HUMAN; Atpa-1; ATPase Na+/K+ transporting alpha 1 polypeptide; ATPase Na+/K+ transporting subunit alpha 1; BC010319; EC 3.6.3.9; MGC3285; MGC38419; MGC51750; Na K ATPase alpha A catalytic polypeptide; Na K ATPase catalytic subunit alpha A protein; Na(+)/K(+) ATPase 1; Na(+)/K(+) ATPase alpha-1 subunit; Na+, K+ ATPase alpha subunit; Na+/K+ ATPase alpha 1 subunit; Na+/K+ ATPase 1; Na,K ATPase alpha 1 subunit; Nkaa1b; Sodium potassium ATPase alpha 1 polypeptide; Sodium pump 1; Sodium pump subunit alpha-1; sodium-potassium ATPase catalytic subunit alpha-1; Sodium/potassium-transporting ATPase subunit alpha-1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	113kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATP1A1:901-1023/1023<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:	PubMed
Product Detail:	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na+/K+-ATPases. Na+/K+ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na+/K+ -ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May2009]. **Function:** This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. **Subunit:** Interacts with SIK1. Composed of three subunits: alpha (catalytic), beta and gamma. Binds the HLA class II histocompatibility antigen, DR1. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. Melanosome. **Tissue Specificity:** Found in most tissues. **Post-translational modifications:** Phosphorylation on Tyr-10 modulates pumping activity. Dephosphorylation by protein phosphatase 2A (PP2A) following increases in intracellular sodium, leading to increase catalytic activity. **Similarity:** Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily. **SWISS:** P05023 **Gene ID:** 476 **Database links:** Entrez Gene: 476 Human

	Entrez Gene: 11928 Mouse Entrez Gene: 24211 Rat Omim: 182310 Human SwissProt: P05023 Human SwissProt: Q8VDN2 Mouse SwissProt: P06685 Rat Unigene: 371889 Human Unigene: 280103 Mouse Unigene: 217534 Rat Unigene: 2992 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 钠钾ATP酶是位于The cell membrane上的一种glycoprotein,与ATP的分解和细胞内外钠、钾离子的转运密切相关,哺乳动物各种组织细胞的钠钾ATP酶的immunology特性基本相同。