

钠钾 ATP 酶蛋白 $\alpha 1$ 抗体

产品货号 : mlR22351

英文名称 : ATP1A1

中文名称 : 钠钾 ATP 酶蛋白 $\alpha 1$ 抗体

别名 : $\alpha 1$ 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 α A catalytic polypeptide; Na K ATPase catalytic subunit α A protein; Na⁺/K⁺ ATPase 1; Na⁺/K⁺ ATPase α -1 subunit; Na⁺, K⁺ ATPase α 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 α -1; sodium-potassium ATPase catalytic subunit α -1; Sodium/potassium-transporting ATPase subunit α -1.

研究领域 : 神经生物学 信号转导 通道蛋白 G 蛋白偶联受体 G 蛋白信号

抗体来源 : Rabbit

克隆类型 : Polyclonal

交叉反应 : Human, Mouse, Rat, Chicken, Pig, Cow, Horse, Rabbit, Sheep,

产品应用 : ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 (石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量 : 112kDa

细胞定位 : 细胞膜

性状 : Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human ATP1A1:901-1023/1023

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : 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

产品介绍 : 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.

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

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

钠钾 ATP 酶是位于细胞膜上的一种糖蛋白,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 酶的免疫学特性基本相同。

产品图片

