

ATP1A1 rabbit monoclonal antibody

Catalog # H00000476-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ATP1A1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ATP1A1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human ATP1A1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — ATP1A1

Entrez GeneID	476
GeneBank Accession#	ATP1A1
Gene Name	ATP1A1
Gene Alias	MGC3285, MGC51750
Gene Description	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide
Omim ID	182310
Gene Ontology	Hyperlink
Gene Summary	<p>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]</p>
Other Designations	G00-119-711 Na ⁺ , K ⁺ ATPase alpha subunit Na ⁺ /K ⁺ -ATPase alpha 1 subunit Na ⁺ /K ⁺ ATPase 1 Na, K-ATPase, alpha-A catalytic polypeptide Na,K-ATPase alpha-1 subunit Na,K-ATPase catalytic subunit alpha-A protein Na/K-ATPase alpha subunit fragment (aa 1-149) OTT

Pathway

- [Cardiac muscle contraction](#)

Disease

- [Altitude Sickness](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hypertension](#)
- [Hypokalemic Periodic Paralysis](#)