

# ATP1A3 rabbit monoclonal antibody

Catalog # H00000478-K      Size 100 ug x up to 3

## Specification

<b>Product Description</b>	Rabbit monoclonal antibody raised against a human ATP1A3 peptide using ARM Technology.
<b>Immunogen</b>	A synthetic peptide of human ATP1A3 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
<b>Host</b>	Rabbit
<b>Library Construction</b>	Non-fusion antibody library from rabbit spleen ( <a href="#">ARM Technology</a> ).
<b>Expression</b>	Overexpression vector and transfection into 293H cell line.
<b>Reactivity</b>	Human
<b>Purification</b>	Protein A
<b>Isotype</b>	IgG
<b>Quality Control Testing</b>	Antibody reactive against human ATP1A3 peptide by ELISA and mammalian transfected lysate by Western Blot.
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Deliverable</b>	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
<b>Note</b>	<ol style="list-style-type: none"><li>1. Customer may provide cell or tissue lysate for antibody screening.</li><li>2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab)<sub>2</sub>, IgG, scFv and different Fc and non-Fc conjugates per customer request.</li></ol>

## Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

## Gene Info — ATP1A3

Entrez GeneID	<a href="#">478</a>
GeneBank Accession#	<a href="#">ATP1A3</a>
Gene Name	ATP1A3
Gene Alias	DYT12, MGC13276, RDP
Gene Description	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 3 polypeptide
Omim ID	<a href="#">128235</a> <a href="#">182350</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na <sup>+</sup> /K <sup>+</sup> -ATPases. Na <sup>+</sup> /K <sup>+</sup> -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 <sup>+</sup> /K <sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes an alpha 3 subunit. [provided by RefSeq]
Other Designations	Na <sup>+</sup> /K <sup>+</sup> -ATPase alpha 3 subunit Na <sup>+</sup> /K <sup>+</sup> ATPase 3 sodium pump 3 sodium-potassium-ATPase, alpha 3 polypeptide sodium/potassium-transporting ATPase alpha-3 chain

## Pathway

- [Cardiac muscle contraction](#)

## Disease

- [Bipolar Disorder](#)
- [Genetic Predisposition to Disease](#)