

## ARG44999 anti-ATP1A3 antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes ATP1A3
Tested Reactivity	Hu
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ATP1A3
Species	Human
Immunogen	Synthetic peptide (a.a 444-477) from human ATP1A3.
Conjugation	Un-conjugated
Alternate Names	ATP1A3; ATPase Na <sup>+</sup> /K <sup>+</sup> Transporting Subunit Alpha 3; Sodium/Potassium-Transporting ATPase Subunit Alpha-3; Sodium Pump Subunit Alpha-3; Sodium-Potassium ATPase Catalytic Subunit Alpha-3; ATPase, Na <sup>+</sup> /K <sup>+</sup> Transporting, Alpha 3 Polypeptide; Na <sup>(+)</sup> /K <sup>(+)</sup> ATPase Alpha(III) Subunit; Na <sup>(+)</sup> /K <sup>(+)</sup> ATPase Alpha-3 Subunit; DYT12; Na <sup>+</sup> , K <sup>+</sup> Activated Adenosine Triphosphatase Alpha Subunit; Sodium/Potassium-Transporting ATPase Alpha-3 Chain; Sodium-Potassium-ATPase, Alpha 3 Polypeptide; Na <sup>+</sup> /K <sup>+</sup> ATPase 3; Dystonia 12; EC 7.2.2.13; EC 3.6.3.9; EC 3.6.3; ATP1A1; CAPOS; DEE99; AHC2; RDP

### Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent.
	WB	1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

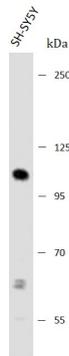
Form	Liquid
Purification	Protein A Purified
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	ATP1A3
Gene Full Name	ATPase Na <sup>+</sup> /K <sup>+</sup> Transporting Subunit Alpha 3
Background	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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]
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. [Uniprot]
Calculated Mw	112 kDa
PTM	Phosphoprotein. [Uniprot]
Cellular Localization	Cell membrane, Membrane. [Uniprot]

## Images



ARG44999 anti-ATP1A3 antibody IHC-P image

Immunohistochemistry: SH-SY5Y stained with ARG44999 anti-ATP1A3 antibody at 1:10000 dilution.