

Product datasheet

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ARG58367 anti-ATP1A4 / Na+ K+ ATPase alpha 4 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes ATP1A4 / Na+ K+ ATPase alpha 4

Tested Reactivity Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name ATP1A4 / Na+ K+ ATPase alpha 4

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-90 of Human ATP1A4 (NP_653300.2).

Conjugation Un-conjugated

Alternate Names Sodium pump subunit alpha-4; Sodium/potassium-transporting ATPase subunit alpha-4; ATP1AL2; EC

3.6.3.9; ATP1A1; Na+ K+ ATPase alpha 4; Na K ATPase alpha 4; sodium potassium ATPase alpha 4;

ATPase Na+ K+ alpha 4; ATPase Na K alpha 4; ATPase sodium potassium alpha 4

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse testis	
Observed Size	100 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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. 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 ATP1A4

Gene Full Name ATPase, Na+/K+ transporting, alpha 4 polypeptide

Background 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 4 subunit. Alternatively spliced transcript variants encoding different isoforms have been identified.

[provided by RefSeq, Jul 2008]

Function This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled

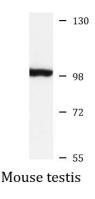
with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of

various nutrients. Plays a role in sperm motility. [UniProt]

Calculated Mw 114 kDa

Cellular Localization Cell membrane, Multi-pass membrane protein. [UniProt]

Images



ARG58367 anti-ATP1A4 / Na+ K+ ATPase alpha 4 antibody WB image

Western blot: 25 μg of Mouse testis lysate stained with ARG58367 anti-ATP1A4 / Na+ K+ ATPase alpha 4 antibody at 1:1000 dilution.