

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 | |

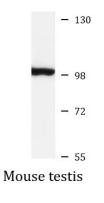
Properties

| 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.