

MaxPab®

ATP1A1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000476-B01P

Size 500 ug

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human ATP1A1 protein.
Immunogen	ATP1A1 (ABM82808.1, 1 a.a. ~ 1023 a.a) full-length human protein.
Sequence	MGKGVGRDKYEPAAVSEQGDKKGGKGGKDRDMDELKKEVSMDDHKLSLDELHRKYGTDLSRG LTSARAAEILARDGPNALTTPPTTPEWIKFCRQLFGGFSMLLWIGAILCFLAYSQAATEEEEPQNDN LYLGVVLSAVVITGCFSYYQEAKSSKIMESFKNMVPQQALVIRNGEKMSINAEVSVVVDLVEVKG GDRIPADLRISANGCKVDNSSLTGESEPQTRSPDFTNENPLETRNIAFFSTNCVEGTARGMVYTG DRTVMGRIATLASGLEGGQTPIAAEIEHFIHITGVAVFLGVSFILSLILEYTWLEAVIFLIGIVANVPEG LLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMWFDNQIHEAD TTENQSGVSFDKTSATWLALSRIAGLCNRAVFQANQENLPILKRAVAGDASESALLKCIELCCGS VKEMRERYAKVEIPFNSTNKYQLSIHKNPNTSEPQHLLVMKGAPERILDRCSSILLHGKEQPLDEE LKDAFQNAYLELGGLGERVLGFCHLFLPDEQFPEGFQFDTDDVNFIDNLCFVGLISMIDPPRAAV PDAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVVHG SDLKDMTSEQLDDILKYHTEIVFARTSPQQKLIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAM GIAGSDVSKQAADMILLDDNFASMTGVEEGRLIFDNLKKSIAYTLTSNIPEITPFLIFIANIPLPLGVTI LCIDLGTDMVPAISLAYEQAESDIMKRQPRNPKTDKLVNERLISMAYGQIGMIQALGGFFTYFVILAE NGFLPIHLLGLRVDWDDRWINDDVEDSYGQQWYEQRKIVEFTCHTAFFVSIVVQWADLVICKTRR NSVFQQGMKNKILIFGLFEETALAAFLSYCPGMGVALRMYPLKPTWWFCAPYSLLIFVYDEVKLI IRRRPGGWVEKETYY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

Gene Info — ATP1A1

Entrez GeneID [476](#)

GeneBank Accession# [DQ891882.2](#)

Protein Accession# [ABM82808.1](#)

Gene Name ATP1A1

Gene Alias MGC3285, MGC51750

Gene Description ATPase, Na⁺/K⁺ transporting, alpha 1 polypeptide

Omim ID [182310](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

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](#)