

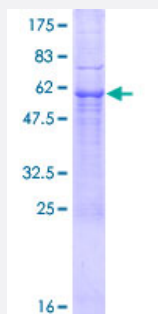
Full-Length

ATP1B2 (Human) Recombinant Protein (P01)

Catalog # H00000482-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ATP1B2 full-length ORF (NP_001669.3, 1 a.a. - 290 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRTGTSWAFILLFYLVFYGFLTAMFTLTMWVMLQ
TVSDHTPKYQDRLATPGLMIRPKTENLDVMNVSDTESWDQHVKLNKFLEPYNDSIQAQKNDVC
RPGRYEQPDNGVLNYPKRACQFNRTQLGNC SGIGDSTHYGYSTGQPCVFIKMNRVINFYAGANQ
SMNVT CAGKRDEDAENLGNFVMFPANGNIDLMYFPYYGKKFHVNYTQPLVAVKFLNVTNVEVN
VECRINAANIATDDERDKFAGRVAFKLRINKT

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

59.8

Interspecies Antigen Sequence

Mouse (97); Rat (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ATP1B2

Entrez GeneID[482](#)**GeneBank Accession#**[NM_001678.3](#)**Protein Accession#**[NP_001669.3](#)**Gene Name**

ATP1B2

Gene Alias

AMOG

Gene DescriptionATPase, Na⁺/K⁺ transporting, beta 2 polypeptide**Omim ID**[182331](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, 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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit. [provided by RefSeq]

Other Designations

Na⁺/K⁺ -ATPase beta 2 subunit|Na, K-ATPase beta-2 polypeptide|adhesion molecule on glia|sodium/potassium-dependent ATPase beta-2 subunit|sodium/potassium-transporting ATPase beta-2 chain

Pathway

- [Cardiac muscle contraction](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hypokalemic Periodic Paralysis](#)
- [Lung Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)