

Recombinant Full Length Human ATP1B2 Protein, GST-tagged

Cat. No. ATP1B2-1166HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP1B2 full-length ORF (NP_001669.3, 1 a.a. - 290 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	290 amino acids
Description	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]
Molecular Mass	59.8 kDa
AA Sequence	MVIQKEKKSC GQVVEEWKEF VWNPRTHQFM GRTGTSWAFI LLFYLVFYGF

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LTAMFTLTMW VMLQTVSDHT PKYQDRLATP GLMIRPKTEN LDVIVNVSDT
 ESWDQHVQKL NKFLEPYNDS IQAQKNDVCR PGRYYEQPDN GVLNYPKRAC
 QFNRTQLGNC SGIGDSTHYG YSTGQPCVFI KMNRVINFYA GANQSMNVTC
 AGKRDEDAEN LGNFVMFPAN GNIDLMYFPY YGKKFHVNYT QPLVAVKFLN
 VTPNVEVNVE CRINAANIAT DDERDKFAGR VAFKLRINKT

Applications

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

Storage

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

Storage Buffer

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

GENE INFORMATION

Gene Name

ATP1B2 ATPase, Na⁺/K⁺ transporting, beta 2 polypeptide [Homo sapiens]

Official Symbol

ATP1B2

Synonyms

ATP1B2; ATPase, Na⁺/K⁺ transporting, beta 2 polypeptide; sodium/potassium-transporting ATPase subunit beta-2; AMOG; adhesion molecule on glia; Na, K-ATPase beta-2 polypeptide; sodium/potassium-dependent ATPase beta-2 subunit; sodium/potassium-dependent ATPase subunit beta-2; sodium/potassium-transporting ATPase beta-2 chain

Gene ID

482

mRNA Refseq

NM_001678

Protein Refseq

NP_001669

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MIM	182331
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UniProt ID	P14415
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