

Recombinant Full Length Human ATP1B1 Protein, GST-tagged

Cat. No. ATP1B1-1131HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ATP1B1 full-length ORF (AAH00006, 1 a.a. - 303 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	303 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 1 subunit. Alternatively spliced transcript variants encoding different isoforms have been described, but their biological validity is not known. [provided by RefSeq, Mar 2010]
Molecular Mass	58.96 kDa

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AA Sequence	MARGKAKEEG SWKKFIWNSE KKEFLGRTGG SWFKILLFYV IFYGCLAGIF IGTIQVMLLT ISEFKPTYQD RVAPPGLTQI PQIQKTEISF RPNDPKSYEA YVLNIVRFLE KYKDSAQRDD MIFEDCGDVP SEPKERGDFN HERGERKVCR FKLEWLGNCs GLNDETYGYK EGKPCIIKL NRVLGFKPKP PKNESLETYP VMKYNPNVLP VQCTGKRDED KDKVGNVEYF GLGNSPGFPL QYYPPYGGKLL QPKYLQPLLA VQFTNLTMDT EIRIECKAYG ENIGYSEKDR FQGRFDVKIE VKS
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	ATP1B1 ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide [Homo sapiens]
Official Symbol	ATP1B1
Synonyms	ATP1B1; ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide; ATP1B; sodium/potassium-transporting ATPase subunit beta-1; adenosinetriphosphatase; Na, K-ATPase beta-1 polypeptide; Beta 1-subunit of Na(+),K(+)-ATPase; sodium/potassium-dependent ATPase beta-1 subunit; sodium/potassium-transporting ATPase beta-1 chain; MGC1798
Gene ID	481
mRNA Refseq	NM_001677
Protein Refseq	NP_001668

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MIM	182330
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UniProt ID	P05026
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