Recombinant Full Length Human ATP1B3 Protein

Cat. No. ATP1B3-1167HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP1B3 full-length ORF (NP_001670.1) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	279 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 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq, Jul 2008]
Molecular Mass	31.5 kDa
AA Sequence	MTKNEKKSLN QSLAEWKLFI YNPTTGEFLG RTAKSWGLIL LFYLVFYGFL

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	AALFSFTMWV MLQTLNDEVP KYRDQIPSPG LMVFPKPVTA LEYTFSRSDP TSYAGYIEDL KKFLKPYTLE EQKNLTVCPD GALFEQKGPV YVACQFPISL LQACSGMNDP DFGYSQGNPC ILVKMNRIIG LKPEGVPRID CVSKNEDIPN VAVYPHNGMI DLKYFPYYGK KLHVGYLQPL VAVQVSFAPN NTGKEVTVEC KIDGSANLKS QDDRDKFLGR VMFKITARA
Applications	Antibody Production; Functional Study; Compound Screening
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name	ATP1B3 ATPase, Na+/K+ transporting, beta 3 polypeptide [Homo sapiens]
Official Symbol	ATP1B3
Synonyms	ATP1B3; ATPase, Na+/K+ transporting, beta 3 polypeptide; sodium/potassium-transporting ATPase subunit beta-3; CD298; FLJ29027; Na, K-ATPase beta-3 polypeptide; sodium/potassium-dependent ATPase beta-3 subunit; sodium/potassium-dependent ATPase subunit beta-3; sodium/potassium-transporting ATPase beta-3 chain; ATPB-3
Gene ID	483
mRNA Refseq	NM_001679
Protein Refseq	NP_001670
MIM	601867

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UniProt ID	P54709

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