

Product datasheet

Recombinant human ATP1B1 protein (Active) ab222961

1 Image

Description

Product name	Recombinant human ATP1B1 protein (Active)	
Biological activity	Specific activity is > 3,000 pmol/min/μg, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of Adenosine 5-triphosphate to phosphate per minute per minute at pH 7.5 at 25°C.	
Purity	> 90 % SDS-PAGE. Affinity purified	
Endotoxin level	< 1.000 Eu/μg	
Expression system	Baculovirus infected Sf21 cells	
Accession	P05026	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	ADPEFKPTYQ DRVAPPGLTQ IPQIQKTEIS FRPNPKSYE AYVLNMRFL EKYKDSAQRD DMIFEDCGDV PSEPKERGDF NHERGERKVC RFKLEWLGNC SGLNDETYGY KEGKPCIIIK LNRVLGFKPK PPKNESLETY PVMKYNPVNL PVQCTGKRDE DKDKVGNVEY FGLGNSPGFP LQYYPYGGKL LQPKYLQPLL AVQFTNLTMD TEIRIECKAY GENIGYSEKD RFQGRFDVKI EVKSHHHHHH	
Predicted molecular weight	29 kDa including tags	
Amino acids	63 to 303	
Tags	His tag C-Terminus	
Additional sequence information	Extracellular domain.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab222961** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
	SDS-PAGE

Additional notes

Background reference: PMID 26506237.

Shi et al. Overexpression of ATP1B1 predicts an adverse prognosis in cytogenetically normal acute myeloid leukemia. *Oncotarget*. 2016 Jan 19;7(3):2585-95. doi: 10.18632/oncotarget.6226.

This product was previously labelled as beta 1 Sodium Potassium ATPase

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 10% Glycerol (glycerin, glycerine), PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane.

Tissue specificity

Found in most tissues.

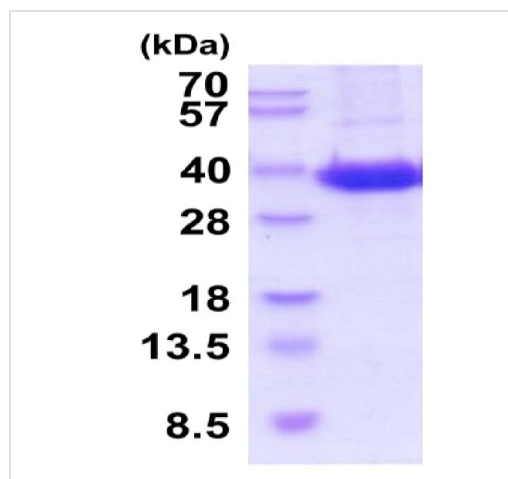
Sequence similarities

Belongs to the X(+)/potassium ATPases subunit beta family.

Cellular localization

Membrane.

Images



SDS-PAGE - Recombinant human ATP1B1 protein (Active) (3 µg ab222961).

28-40 kDa under reducing conditions.

SDS-PAGE - Recombinant human ATP1B1 protein (Active) (ab222961)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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