abcam

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 FRPNDPKSYE AYVLNIVRFL EKYKDSAQRD DMIFEDCGDV PSEPKERGDF NHERGERKVC RFKLEWLGNC SGLNDETYGY KEGKPCIIIK LNRVLGFKPK PPKNESLETY PVMKYNPNVL PVQCTGKRDE DKDKVGNVEY FGLGNSPGFP LQYYPYYGKL 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.

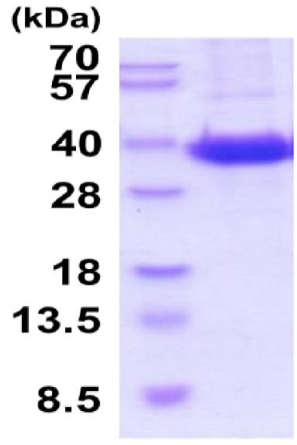
Sequence similarities

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

Cellular localization

Membrane.

Images



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

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

28-40 KDa under reducing conditions.

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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