

Product datasheet

Recombinant Human ATPB protein (Tagged) ab235856

[1 References](#) [1 Image](#)

Description

Product name	Recombinant Human ATPB protein (Tagged)	
Purity	> 85 % SDS-PAGE.	
Expression system	Escherichia coli	
Accession	<u>P06576</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	YSVFAGVGERETREGNDLYHEMIESGVINLKDATSKVALVY GQMNEPPGAR ARVALTGLTVAEYFRDQEGQDVLLFIDNIFRFTQAGSEVSA LLGRIPSAV GYQPTLATDMGTMQERITTTKKGSITSVQAIMVPADDLTDP APATTF AHL DATTVLSRAIAELGIYPAVDPLDSTSRIMDPNIVGSEHYDVA RGVQKILQ DYKSLQDIAILGMDLSEEDKLTVSRARKIQRFLSQPFQVA EVFTGHMG KLVPLKETIKGFQQILAGEYDHLPEQAFYVMVGPIEEAVAKA DKLAEEHSS	
Predicted molecular weight	53 kDa including tags	
Amino acids	230 to 529	
Tags	His tag N-Terminus	
Additional sequence information	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged.	

Specifications

Our **Abpromise guarantee** covers the use of **ab235856** in the following tested applications.

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

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.2

Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

General Info

Function

Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

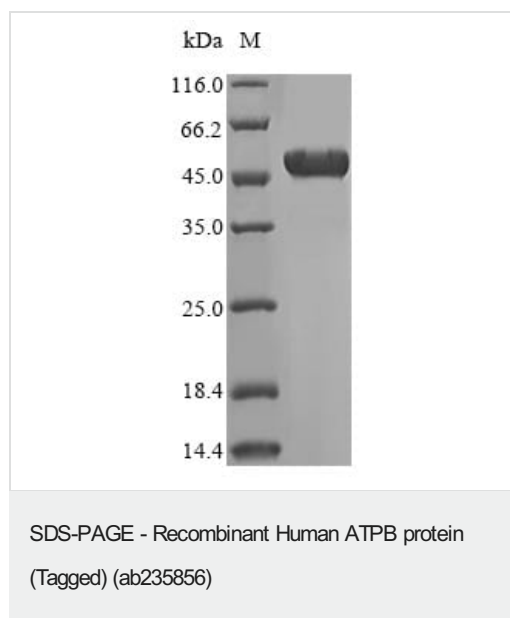
Sequence similarities

Belongs to the ATPase alpha/beta chains family.

Cellular localization

Mitochondrion. Mitochondrion inner membrane. Peripheral membrane protein.

Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel of ab235856.

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