abcam

Product datasheet

Recombinant Human MYL12B protein ab128438

1 References 1 Image

Description

Product name	Recombinant Human MYL12B protein
Purity	> 90 % SDS-PAGE. ab128438 was purified using conventional chromatography.
Expression system	Escherichia coli
Accession	O14950
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHH SSGLVPRGSH MGSH**MSSKKA KTKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DAYLDAMMNE APGPINFTMF LTMFGEKLNG TDPEDVIRNA FACFDEEATG TIQEDYLREL LTTMGDRFTD EEVDELYREA PIDKKGNFNY IEFTRILKHG AKDKDD
Predicted molecular weight	22 kDa including tags
Amino acids	1 to 172
Tags	His tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab128438** in the following tested applications.

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

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid

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 -

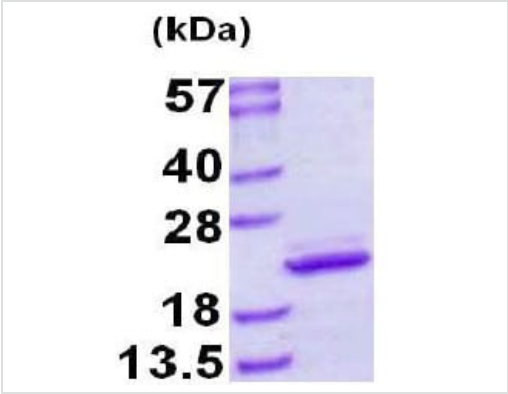
80°C. Avoid freeze / thaw cycle.

pH: 8.00
Constituents: 0.03% DTT, 0.32% Tris HCl, 40% Glycerol (glycerin, glycerine), 1.17% Sodium chloride

General Info

Function	Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Phosphorylation triggers actin polymerization in vascular smooth muscle. Implicated in cytokinesis, receptor capping, and cell locomotion.
Tissue specificity	Ubiquitously expressed in various hematopoietic cells.
Sequence similarities	Contains 3 EF-hand domains.
Post-translational modifications	Phosphorylation increases the actin-activated myosin ATPase activity and thereby regulates the contractile activity. It is required to generate the driving force in the migration of the cells but not necessary for localization of myosin-2 at the leading edge. Phosphorylation is reduced following epigallocatechin-3-O-gallate treatment.

Images



SDS-PAGE - Recombinant Human MYL12B protein (ab128438)

15% SDS-PAGE analysis of 3µg ab128438.

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