abcam

Product datasheet

Recombinant Human Myosin light chain 3 protein ab158937

1 Image

Description

Product name	Recombinant Human Myosin light chain 3 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAPKKPEPKKDDAKAAPKAAPAPAPPPEPERPKEVEFD ASKIKIEFTPEQ IEEFKEAFMLFDRTPKCEMKITYGQCGDVLRALGQNPTQA EVLRVLGKPR QEELNTKMMDFETFLPMLQHISKNKDTGTYEDFVEGLRVF DKEGNGTVMG AELRHVLATLGERLTEDEVEKLMAGQEDSNGCINYEAFVK HIMSS
Amino acids	1 to 195
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab158937** in the following tested applications.

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

Applications	ELISA
	Western blot
Form	Liquid
Additional notes	

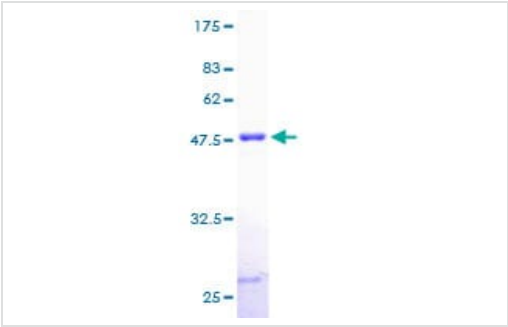
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Regulatory light chain of myosin. Does not bind calcium.
Involvement in disease	Defects in MYL3 are the cause of cardiomyopathy familial hypertrophic type 8 (CMH8) [MIM:608751]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. CMH8 inheritance can be autosomal dominant or recessive. Defects in MYL3 are the cause of cardiomyopathy familial hypertrophic with mid-left ventricular chamber type 1 (MVC1) [MIM:608751]. MVC1 is a very rare variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening.
Sequence similarities	Contains 3 EF-hand domains.
Post-translational modifications	The N-terminus is blocked. N-terminus is methylated by METTL11A/NTM1.

Images



SDS-PAGE - Recombinant Human Myosin light chain 3 protein (ab158937)

ab158937 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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