abcam

Product datasheet

Recombinant Human Myozenin 2 protein ab169888

Description

Product name	Recombinant Human Myozenin 2 protein
Purity	> 90 % SDS-PAGE. The final product was refolded using a unique “temperature shift inclusion body refolding” technology and chromatographically purified.
Expression system	Escherichia coli
Accession	Q9NPC6
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MASMTGGQQMGRGEFMLSHNTMMKQRKQQATAIMKEVH GNDVDGMDLGKK VSIPRDIMLEELSHLSNRGARLFKMRQRRSDKYTFENFQY QSRAQINHSI AMQNGKVDGSNLEGGSQQAPLTPPNTPDPRSPPNPDNIA PGYSGPLKEIP PEKFNTTAVPKYYQSPWEQAISNDPELLEALYPKLFKPEG KAELPDYRSF NRVATPFGGFEKASRMVKFKVPDFELLLLTDPRFMSFVN PLSGRRSFNRT PKGWISENIPIVITTEPTDDTTVPESEDL
Predicted molecular weight	30 kDa
Amino acids	1 to 264
Tags	T7 tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab169888** 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. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituent: 0.32% Tris HCl Contains NaCl, KCl, EDTA, arginine, DTT and Glycerol.

General Info

Function	Myozenins may serve as intracellular binding proteins involved in linking Z line proteins such as alpha-actinin, gamma-filamin, TCAP/telethonin, LDB3/ZASP and localizing calcineurin signaling to the sarcomere. Plays an important role in the modulation of calcineurin signaling. May play a role in myofibrillogenesis.
Tissue specificity	Expressed specifically in heart and skeletal muscle.
Involvement in disease	Defects in MYOZ2 are the cause of familial hypertrophic cardiomyopathy type 16 (CMH16) [MIM:613838]. CMH16 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.
Sequence similarities	Belongs to the myozenin family.
Cellular localization	Cytoplasm > myofibril > sarcomere > Z line. Colocalizes with ACTN1 and PPP3CA at the Z-line of heart and skeletal muscle.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

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