abcam

Product datasheet

Recombinant Human Myozenin 2 protein ab172811

Description

Product name	Recombinant Human Myozenin 2 protein
Purity	> 95 % SDS-PAGE. Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	**Q9NPC6**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MLSHNTMMKQRKQQATAIMKEVHGNDVDGMDLGKKVSIP RDIMLEELSHL SNRGARLFKMRQRRSDKYTFENFQYQSRA QINHSIAMQNGKVDGSNLE GGSQQAPLTPPNTPDPRSPPNPDNIAPGYSGPLKEIPPEK FNTTAVPKYY QSPWEQAISNDPELLEALYPKLFKPEGKAELPDYRSFNRV ATPFGGFEKA SRMVKFKVPDFELLLLTDPRFMSFVNPLSGRRSFNRTPK GWISENIPVI TTEPTDDTTVPESEDLLEHHHHHH
Predicted molecular weight	31 kDa including tags
Amino acids	1 to 264
Tags	His tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab172811** 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 HPLC
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituent: 0.12% Tris Supplied as a 0.2 µM filtered solution

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.

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