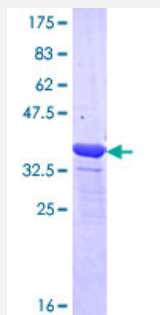


MYOM1 (Human) Recombinant Protein (Q01)

Catalog # H00008736-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MYOM1 partial ORF (NP_003794.2, 1586 a.a. - 1684 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	EGKALNLTTCNVWGDPPPEVSWLKNEKALASDDHCNLKFEAGRTAYFTINGVSTADSGKYGLVVK NKYGSETSDFTVSVFIPEEEARMAALES�KGKKA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (84); Rat (84)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MYOM1

Entrez GeneID [8736](#)

GeneBank Accession# [NM_003803](#)

Protein Accession# [NP_003794.2](#)

Gene Name MYOM1

Gene Alias MGC134946, MGC134947, SKELEMIN

Gene Description myomesin 1, 185kDa

Omim ID [603508](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The giant protein titin, together with its associated proteins, interconnects the major structure of sarcomeres, the M bands and Z discs. The C-terminal end of the titin string extends into the M line, where it binds tightly to M-band constituents of apparent molecular masses of 190 kD (myomesin 1) and 165 kD (myomesin 2). This protein, myomesin 1, like myomesin 2, titin, and other myofibrillar proteins contains structural modules with strong homology to either fibronectin type III (motif I) or immunoglobulin C2 (motif II) domains. Myomesin 1 and myomesin 2 each have a unique N-terminal region followed by 12 modules of motif I or motif II, in the arrangement II-II-I-I-I-I-II-II-II-II. The two proteins share 50% sequence identity in this repeat-containing region. The head structure formed by these 2 proteins on one end of the titin string extends into the center of the M band. The integrating structure of the sarcomere arises from muscle-specific members of the superfamily of immunoglobulin-like proteins. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]

Other Designations

190 kDa connectin-associated protein|190 kDa titin-associated protein|EH-myomesin|myomesin (M-protein) 1 (190kD)|myomesin 1|myomesin 1 (skelemin) (185kD)|myomesin 1 (skelemin) 185kDa

Disease

- [Tobacco Use Disorder](#)