

MYOM1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13444c**Specification**

MYOM1 Antibody (Center) Blocking peptide - Product Information

Primary Accession [P52179](#)

MYOM1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 8736

Other Names

Myomesin-1, 190 kDa connectin-associated protein, 190 kDa titin-associated protein, Myomesin family member 1, MYOM1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13444c was selected from the Center region of MYOM1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MYOM1 Antibody (Center) Blocking peptide - Protein Information

Name MYOM1

Function

Major component of the vertebrate myofibrillar M band. Binds myosin, titin, and light meromyosin. This binding is dose dependent.

Cellular Location

Cytoplasm, myofibril, sarcomere, M line

MYOM1 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MYOM1 Antibody (Center) Blocking peptide - Images**MYOM1 Antibody (Center) Blocking peptide - Background**

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-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.

MYOM1 Antibody (Center) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Schoenauer, R., et al. J. Mol. Biol. 349(2):367-379 (2005) : Hornemann, T., et al. J. Mol. Biol. 332(4):877-887 (2003) : Porter, J.D., et al. J. Exp. Biol. 206 (PT 17), 3101-3112 (2003) : Agarkova, I., et al. J. Biol. Chem. 275(14):10256-10264 (2000)