

**MYOM1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13444C**

**Specification**

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**MYOM1 Antibody (Center) - Product Information**

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Application       | IHC-P, WB,E                                               |
| Primary Accession | <a href="#">P52179</a>                                    |
| Other Accession   | <a href="#">NP_003794.3</a> , <a href="#">NP_062830.1</a> |
| Reactivity        | Human                                                     |
| Host              | Rabbit                                                    |
| Clonality         | Polyclonal                                                |
| Isotype           | Rabbit IgG                                                |
| Calculated MW     | 187627                                                    |
| Antigen Region    | 904-933                                                   |

**MYOM1 Antibody (Center) - 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**

This MYOM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 904-933 amino acids from the Central region of human MYOM1.

**Dilution**

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MYOM1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**MYOM1 Antibody (Center) - 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**

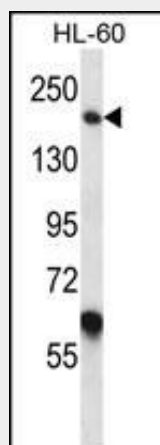
Cytoplasm, myofibril, sarcomere, M line

**MYOM1 Antibody (Center) - Protocols**

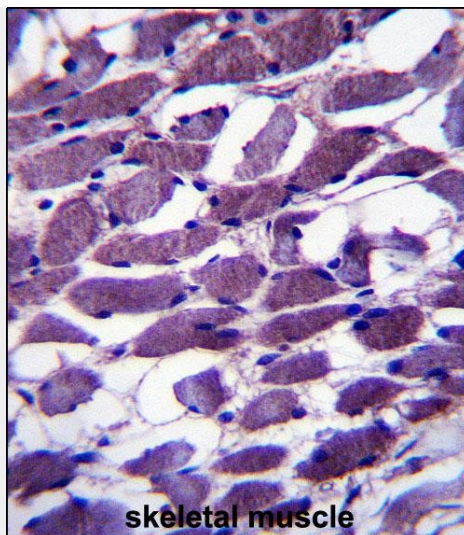
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MYOM1 Antibody (Center) - Images**



MYOM1 Antibody (Center) (Cat. #AP13444c) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the MYOM1 antibody detected the MYOM1 protein (arrow).



MYOM1 Antibody (Center) (Cat. #AP13444c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MYOM1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **MYOM1 Antibody (Center) - 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-I-II-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) - 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)