

myomesin-1 (C-16): sc-30390

BACKGROUND

Myomesin-1 and myomesin-2 are components of the vertebrate myofibrillar M band and are associated with Titin, Myosin and Connectin. The myomesin proteins are responsible for the formation of a head structure on one end of the Titin string that connects the Z and M bands of the sarcomere. Myomesin-1 and -2 have unique N-terminal domains and are expressed mainly in skeletal muscle. The gene encoding human myomesin-1 maps to chromosome 18p11.31.

REFERENCES

1. Grove, B.K., Kurer, V., Lehner, C., Doetschman, T.C., Perriard, J.C. and Eppenberger, H.M. 1984. A new 185 kDa skeletal muscle protein detected by monoclonal antibodies. *J. Cell Biol.* 98: 518-524.
2. Vinkemeier, U., Obermann, W., Weber, K. and Furst, D.O. 1993. The globular head domain of Titin extends into the center of the sarcomeric M band. cDNA cloning, epitope mapping and immunoelectron microscopy of two Titin-associated proteins. *J. Cell Sci.* 106: 319-330.

CHROMOSOMAL LOCATION

Genetic locus: MYOM1 (human) mapping to 18p11.31; Myom1 (mouse) mapping to 17 E1.3.

SOURCE

myomesin-1 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of myomesin-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-30390 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

myomesin-1 (C-16) is recommended for detection of myomesin-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

myomesin-1 (C-16) is also recommended for detection of myomesin-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for myomesin-1 siRNA (h): sc-45889, myomesin-1 siRNA (m): sc-45890, myomesin-1 shRNA Plasmid (h): sc-45889-SH, myomesin-1 shRNA Plasmid (m): sc-45890-SH, myomesin-1 shRNA (h) Lentiviral Particles: sc-45889-V and myomesin-1 shRNA (m) Lentiviral Particles: sc-45890-V.

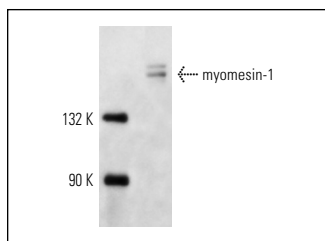
Molecular Weight of myomesin-1: 190 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or rat skeletal muscle extract: sc-364810.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



myomesin-1 (C-16): sc-30390. Western blot analysis of myomesin-1 expression in rat skeletal muscle tissue extract.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **myomesin-1 (4F5): sc-293303**, our highly recommended monoclonal alternative to myomesin-1 (C-16).