

# myomesin-2 (C-20): sc-30387

## 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.

## REFERENCES

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3. Speel, E.J., van der Ven, P.F., Albrechts, J.C., Ramaekers, F.C., Furst, D.O. and Hopman, A.H. 1998. Assignment of the human gene for the sarcomeric M-band protein myomesin (MYOM1) to 18p11.31-p11.32. *Genomics* 54: 184-186.
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5. Porter, J.D., Merriam, A.P., Gong, B., Kasturi, S., Zhou, X., Hauser, K.F., Andrade, F.H. and Cheng, G. 2003. Postnatal suppression of myomesin, muscle creatine kinase and the M-line in rat extraocular muscle. *J. Exp. Biol.* 206: 3101-3112.
6. Hornemann, T., Kempa, S., Himmel, M., Hayess, K., Furst, D.O. and Wallimann, T. 2003. Muscle-type creatine kinase interacts with central domains of the M-band proteins myomesin and M-protein. *J. Mol. Biol.* 332: 877-887.

## CHROMOSOMAL LOCATION

Genetic locus: MYOM2 (human) mapping to 8p23.3; Myom2 (mouse) mapping to 8 A1.1.

## SOURCE

myomesin-2 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of myomesin-2 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-30387 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

myomesin-2 (C-20) is recommended for detection of myomesin-2 of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for myomesin-2 siRNA (h): sc-60020 and myomesin-2 siRNA (m): sc-60021.

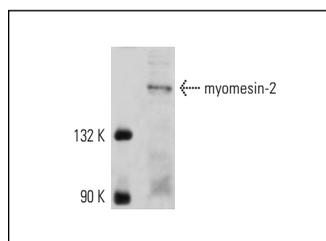
Molecular Weight of myomesin-2: 165 kDa.

Positive Controls: rat skeletal muscle extract.

## 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-2 (C-20): sc-30387. Western blot analysis of myomesin-2 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.