

myomesin-2 (H-16): sc-30385

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

1. Grove, B.K., et al. 1984. A new 185 kDa skeletal muscle protein detected by monoclonal antibodies. *J. Cell Biol.* 98: 518-524.
2. Vinkemeier, U., et al. 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: MYOM2 (human) mapping to 8p23.3; Myom2 (mouse) mapping to 8 A1.1.

SOURCE

myomesin-2 (H-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-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-30385 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 (H-16) 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, myomesin-2 siRNA (m): sc-60021, myomesin-2 shRNA Plasmid (h): sc-60020-SH, myomesin-2 shRNA Plasmid (m): sc-60021-SH, myomesin-2 shRNA (h) Lentiviral Particles: sc-60020-V and myomesin-2 shRNA (m) Lentiviral Particles: sc-60021-V.

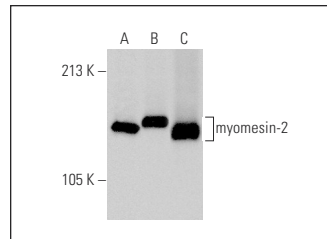
Molecular Weight of myomesin-2: 165 kDa.

Positive Controls: human skeletal muscle extract: sc-363776 or human heart extract: sc-363763.

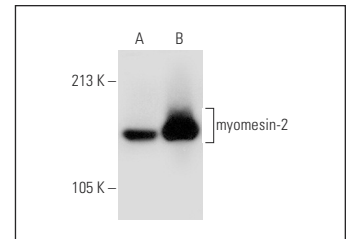
RECOMMENDED SECONDARY REAGENTS

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 (H-16): sc-30385. Western blot analysis of myomesin-2 expression in human skeletal muscle (A), mouse skeletal muscle (B) and human heart (C) tissue extracts.



myomesin-2 (H-16): sc-30385. Western blot analysis of myomesin-2 expression in mouse heart (A) and mouse skeletal muscle (B) tissue extracts.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **myomesin-2 (E-5): sc-515638**, our highly recommended monoclonal alternative to myomesin-2 (H-16).