

## Anti-Myosin(Skeletal, Fast) MYH2 Antibody (Monoclonal, MY-32)

Catalog Number: MA1063

### About MYH2

Myosin is composed of 2 heavy chains of about 200,000 daltons each and 4 light chains of about 20,000 daltons each. The light chains are of 2 distinct types: the phosphorylatable, regulatory, or MLC2 type, and the nonphosphorylatable, alkali, or MLC1 and MLC3 types (MYL1 according to the HGM symbols). Skeletal Myosin (Fast), also known as MYL1, mapped to the region 2q32.1-qter.

### Overview

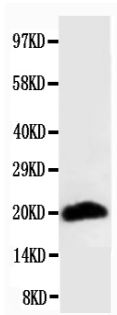
Product Name	Anti-Myosin(Skeletal, Fast) MYH2 Antibody (Monoclonal, MY-32)
Reactive Species	Human, Mouse, Rabbit, Rat
Description	Boster Bio Anti-Myosin (Skeletal, Fast) MYH2 Antibody (Monoclonal, MY-32) catalog # MA1063. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rabbit, Rat.
Application	IHC, WB
Clonality	Monoclonal MY-32
Formulation	Mouse IgG in stabilizing components, 1.2% sodium acetate and 0.01mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	I6L963

### Technical Details

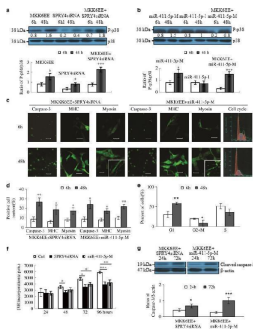
Immunogen	Rabbit muscle myosin.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 1 ml of PBS buffer will yield a concentration of 100 ug/ml.
Purification	Ascites
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 1.5-2ug/ml, Human, mouse, rabbit, rat Western blot, 1-2ug/ml, Human, mouse, rabbit, rat

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## Anti-Myosin(Skeletal, Fast) MYH2 Antibody (Monoclonal, MY-32) (MA1063) Images



Anti-Myosin(Skeletal, Fast) antibody (monoclonal), MA1063,  
Western blottingWB: Rat Skeletal Muscle Tissue Lysate



miR-411-5p activate p38MAPK pathway by targeting SPRY4-induced terminal differentiation of RMS. ( a ) Western blot analysis of p38MAPK activation (P-p38MAPK: p-38) in RMS cells treated with HA-tagged MKK6EE protein-expressing pcDNA3, SPRY4 siRNA, or both. ( b ) Western blot analysis of p38MAPK activation (P-p38MAPK:p-38) in RMS cells treated with miR-411-5p-M, miR-411-5p-I, and MKK6EE protein-expressing pcDNA3 plus miR-411-5p-M. ( c ) Terminal differentiation of RD cells after treatment with SPRY4 siRNA or miR-411-5p-M for 6 and 48 h. Cells stained with apoptosis marker (caspase-3); cell cycle was analyzed using propidium iodide (PI) and showed changed morphology (MHC and myosin) after activation of p38MAPK caused by SPRY4 siRNA or miR-411-5p-M. Scale bars: panel (Caspase-3)=100 u m, panel (MHC and Myosin)=20 u m. ( d ) Quantitation of terminal differentiation of RD cells after treatment with SPRY4 siRNA or miR-411-5p-M for 6 and 48 h. ( e ) Graphical representation of cell cycle phase proportions in RD cells after treatment with miR-411-5p-M for 6 and 48 h. ( f ) Proliferation of RD cells was evaluated by [ 3 H ] thymidine incorporation assay after treatment with SPRY4 siRNA or miR-411-5p-M for 4 days. The amount of [ 3 H ] thymidine incorporated was measured with a liquid scintillation counter. The OD at 557 nm was determined using a microplate reader. ( g ) Western blot analysis of cleaved caspase-3 in RMS cells treated with SPRY4 siRNA or miR-411-5p-M for 24 and 72 h. Each assay ( a - g ) was conducted at least three times independently. Error bars indicate S.D. \* P

### 1 Publications Citing This Product

1. PubMed ID: 23640900, Nie Yw, Ding Xb, Ge Xg, Fan Hl, Liu Zw, Guo H. Cell Biol Int. 2013 Sep;37(9):972-6. Doi: 10.1002/Cbin.10124. Epub 2013 May 23. Enhanced Expression Of Myf5 And Myod1 In Fibroblast Cells Via The Forced Expression Of Bos Taurus Myf5.

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