

Anti-Myosin(Skeletal, Slow) Myh7 Antibody (Monoclonal, NOQ7.5.4D)

Catalog Number: MA1064

About Myh7

Myosin is composed of 2 heavy chains of about 200,000 daltons each and 4 light chains of about 20,000 daltons each. Skeletal Myosin (slow), also known as light chain 3 (MYL3), mapped to 3p. Fodor et al. (1989) found that the MYL3 gene has 7 exons, the last of which is completely untranslated 3-prime sequence.

Overview

Product Name	Anti-Myosin(Skeletal, Slow) Myh7 Antibody (Monoclonal, NOQ7.5.4D)
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-Myosin (Skeletal, Slow) Myh7 Antibody (Monoclonal, NOQ7.5.4D) catalog # MA1064. Tested in IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal NOQ7.5.4D
Formulation	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
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	P12883

Technical Details

Immunogen	Human skeletal muscle myosin purified from myofibrils.
Predicted Reactive Species	Bovine, Monkey
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

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.5-2ug/ml, Human, monkey, mouse, rat

Immunohistochemistry (Paraffin-embedded Section), 1-2ug/ml, Human, monkey, mouse, rat, By Heat

Anti-Myosin(Skeletal, Slow) Myh7 Antibody (Monoclonal, NOQ7.5.4D) (MA1064) Images

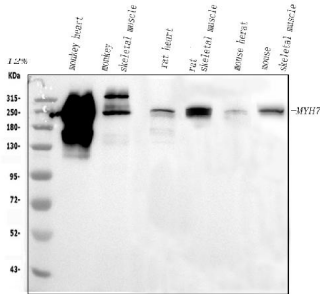


Figure 1. Western blot analysis of Myosin using anti-Myosin antibody (MA1064).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: monkey heart tissue lysates,
Lane 2: monkey skeletal muscle tissue lysates,
Lane 3: rat heart tissue lysates,
Lane 4: rat skeletal muscle tissue lysates,
Lane 5: mouse heart tissue lysates,
Lane 6: mouse skeletal muscle tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Myosin antigen affinity purified monoclonal antibody (Catalog # MA1064) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Myosin at approximately 230 kDa. The expected band size for Myosin is at 223 kDa.

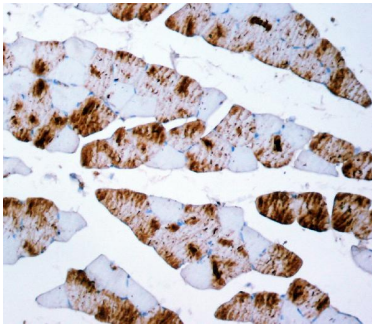


Figure 2. IHC analysis of Myosin using anti-Myosin antibody (MA1064).
Myosin was detected in a paraffin-embedded section of rat skeletal muscle tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Myosin Antibody (MA1064) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.

2 Publications Citing This Product

1. PubMed ID: -, Yan X,Niu Q,Gao X,Shen S,He N,Wang H,Fang R,Gao Y,Chang H.2021.Differential protein metabolism and regeneration in gastrocnemius muscles in high-fat diet fed mice and pre-hibernation Daurian ground squirrels: a comparison between pathological and healthy
2. 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.

Visit bosterbio.com/anti-myosin-skeletal-slow-antibody-monoclonal-ma1064-boster.html to see all 2 publications.

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