abcam

Product datasheet

Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] ab185967

Recombinant RabMAb®

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Overview

Product name	Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)]
Description	Rabbit monoclonal [EPR10891(2)] to MYH6 + Slow Skeletal Myosin Heavy chain
Host species	Rabbit
Specificity	The immunogen used for this product shares 78%,76%,76%,76%,72%homology with Myosin 2 1 3 8 4, respectively. Cross-reactivity with these proteins has not been confirmed experimentally.
Tested applications	**Suitable for:** mIHC, WB, IHC-P **Unsuitable for:** Flow Cyt,ICC/IF or IHC-Fr
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: His tagged recombinant Human Myosin-7 and 6 protein, mouse and rat heart lysates. IHC: Human skeletal muscle mIHC: Human skeletal muscle tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR10891(2)
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab185967 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
mIHC		Use at an assay dependent concentration.
WB		1/500. Detects a band of approximately 220 kDa (predicted molecular weight: 224 kDa).
IHC-P		1/1000 - 1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes	Is unsuitable for Flow Cyt,ICC/IF or IHC-Fr.

Target

Cellular localization	MYH6: Cytoplasm > myofibril. Thick filaments of the myofibrils. Slow Skeletal Myosin Heavy chain: Cytoplasm > myofibril. Thick filaments of the myofibrils.

Images

Multiplex immunohistochemistry - Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967)

Fluorescence multiplex immunohistochemical analysis of the human skeletal muscle (Formalin/PFA-fixed paraffin-embedded sections).

Panel A: merged staining of anti-delta Sarcoglycan (**ab137101**, red; Opal™690), anti-MYH2 (**ab264036**, cyan; Opal™520) and anti-MYH6 + Slow Skeletal Myosin Heavy chain (**ab250868**, gray; Opal™570) on human skeletal muscle. Panel B: anti-MYH2 stained on the fast twitch type 2A fibers. Panel C: anti-MYH6 + Slow Skeletal Myosin Heavy chain stained on skeletal muscle fiber subtypes. Panel D: anti-delta Sarcoglycan stained on membrane of skeletal muscle. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

The section was incubated in three rounds of staining: in the order of **ab137101** at 1/1000 dilution (1.043 μg/ml), **ab264036** at 1/1000 dilution (1.116 μg/ml) and **ab250868** 1/5000 dilution (0.209 μg/ml) for 30 mins at room temperature. Each round was followed by a

separate fluorescent tyramide signal amplification system. DAPI (blue) was used as a nuclear counter stain.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation (**ab250868**).
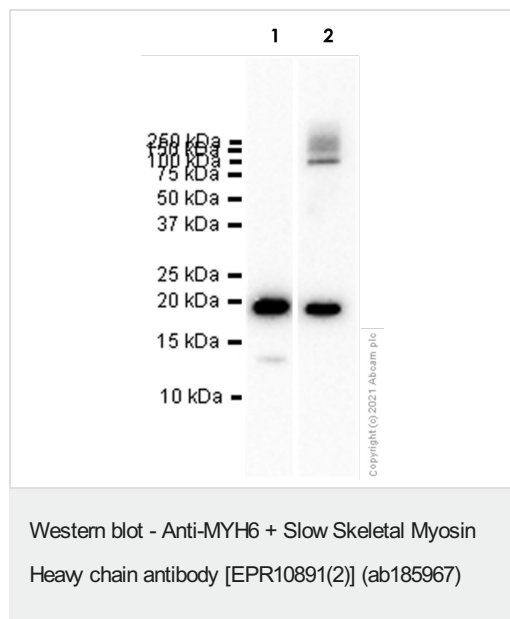
Western blot - Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967)

Lane 1 : Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967) at 1/1000 dilution
Lane 2 : Anti-6X His tag® antibody [EPR20547] - ChIP Grade (**ab213204**) at 1/1000 dilution

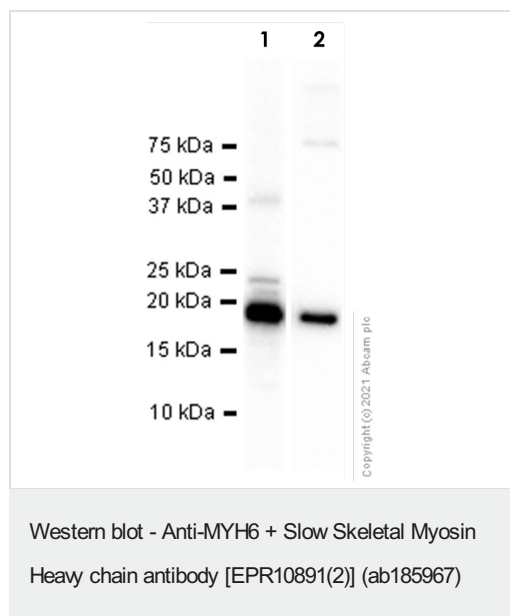**All lanes :** His tagged recombinant Human Myosin-6 protein(aa 1193-1337)

Lysates/proteins at 0.01 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG,(H+L), Peroxidase conjugated)

Predicted band size: 224 kDa

ab185967 could recognize both Myosin 6 and 7 protein

Western blot - Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967)

Lane 1 : Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967) at 1/1000 dilution

Lane 2 : Anti-6X His tag® antibody [EPR20547] - ChIP Grade (**ab213204**) at 1/1000 dilution (His Tag)

**All lanes :** His tagged recombinant Human Myosin-7 protein(aa 1191-1335)

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 224 kDa

ab185967 could recognize both Myosin 6 and 7 protein

Western blot - Anti-Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967)
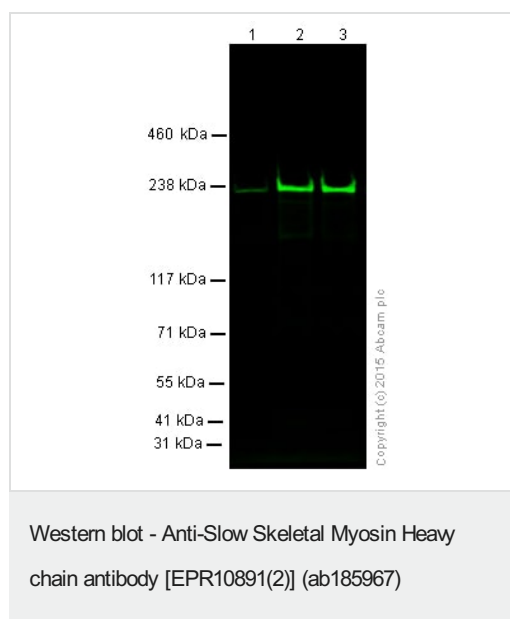
All lanes : Anti-MYH6 + Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967) at 1/500 dilution

Lane 1 : Human adult heart lysate
**Lane 2 :** Mouse heart lysate
Lane 3 : Rat heart lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti Rabbit IR680 at 1/10000 dilution

Predicted band size: 224 kDa

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with ab185967 overnight at 4°C. Antibody binding was detected using Goat anti Rabbit IR680 at a 1:10,000 dilution for 1hr at room temperature and then imaged using the Licor Odyssey CLx.
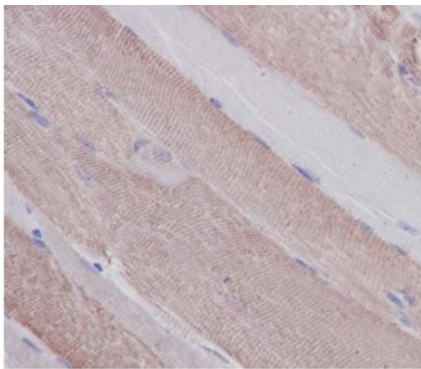
Immunohistochemical analysis of paraffin embedded Human skeletal muscle tissue labeling Slow Skeletal Myosin Heavy chain with ab185967 at 1/2000 dilution. Counterstained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967)

Anti-Slow Skeletal Myosin Heavy chain antibody [EPR10891(2)] (ab185967)

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