**Product name**
Anti-Fast Myosin Skeletal Heavy chain antibody [MY-32] ab51263

**Description**
Mouse monoclonal [MY-32] to Fast Myosin Skeletal Heavy chain

**Host species**
Mouse

**Tested applications**
Suitable for: ICC, IHC-P

**Species reactivity**
Reacts with: Rabbit

**Immunogen**
Full length native protein (purified) corresponding to Rabbit Fast Myosin Skeletal Heavy chain. Purified rabbit muscle myosin.

**Positive control**
ICC: ioSkeletal Myocytes - Human iPSC-Derived Skeletal Myocytes (ab277612). IHC: Rabbit tongue section

**General notes**
This product was changed from ascites to tissue culture supernatant on 18th October 2016. The following lot is from ascites and is still in stock as of 18th October 2016 (GR255796). Lot numbers higher than GR255796 will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.

May be used for detecting cross striated muscle differentiation in tumors.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

**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 or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**
pH: 7.40
Preservative: 0.097% Sodium azide
Constituent: PBS

Purity: Proprietary Purification
Purification notes: Purified from Tissue culture supernatant.
Clonality: Monoclonal
Clone number: MY-32
Isotype: IgG1

Applications

The Abpromise guarantee: Our Abpromise guarantee covers the use of ab51263 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ICC</td>
<td></td>
<td>Use a concentration of 1 - 5 µg/ml.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★★ (4)</td>
<td>Use at an assay dependent concentration.</td>
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Target

Function: Muscle contraction.
Sequence similarities: Contains 1 IQ domain.
Contains 1 myosin head-like domain.
Domain: The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils.
Each myosin heavy chain can be split into 1 light meromyosin (LMM) and 1 heavy meromyosin (HMM). It can later be split further into 2 globular subfragments (S1) and 1 rod-shaped subfragment (S2).
Cellular localization: Cytoplasm > myofibril. Thick filaments of the myofibrils.

Images
Immunofluorescence staining of Fast Myosin Skeletal Heavy chain using ab51263 in ioSkeletal Myocytes - Human iPSC-Derived Skeletal Myocytes (ab277612), which were differentiated for 3 (left panel), 5 (middle panel) and 10 days (right panel) post induction.

The cells were fixed with 100% MeOH (5 min) and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab51263 at 5 µg/mL and ab6046, rabbit polyclonal to beta Tubulin, at 1/1000 dilution. Cells were then incubated with ab150117, Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and ab150088, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown. Gamma is adjusted to 1.5 in all channels.

The antibody ab51263 gave comparable results using 4% formaldehyde fixation (10 min).

Immunohistochemistry analysis of Formalin-fixed, paraffin-embedded Rabbit tongue sections labeling Fast Myosin Skeletal Heavy chain with ab51263 at 20 µg/mL followed by Goat Anti-Mouse IgG (Fab specific)-FITC antibody.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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