**Overview**

**Product name**
Anti-Fast Myosin Skeletal Heavy chain antibody

**Description**
Rabbit polyclonal to Fast Myosin Skeletal Heavy chain

**Host species**
Rabbit

**Tested applications**
Suitable for: IHC-Fr, WB, IHC-P

**Species reactivity**
Reacts with: Mouse, Rat, Human, Pig

Predicted to work with: Sheep, Guinea pig, Cow

**Immunogen**
Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Fast Myosin Skeletal Heavy chain. Read Abcam's proprietary immunogen policy

**Positive control**
This antibody gave a positive signal in the following lysates: Skeletal Muscle (Human) Tissue Lysate; Skeletal Muscle (Mouse) Tissue Lysate; Skeletal Muscle (Rat) Tissue Lysate

**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**
Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

**Applications**

Our Abpromise guarantee covers the use of ab91506 in the following tested applications.

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

Application
<table>
<thead>
<tr>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration. PubMed: 23515448</td>
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<tr>
<td>WB</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 223 kDa (predicted molecular weight: 223 kDa).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>Use a concentration of 1 µg/ml.</td>
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Target

Images

IHC image of Fast Myosin Skeletal Heavy chain staining in Mouse skeletal muscle FFPE section, performed on a BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab91506, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fast Myosin Skeletal Heavy chain antibody (ab91506)
All lanes: Anti-Fast Myosin Skeletal Heavy chain antibody (ab91506) at 1 µg/ml

Lane 1: Human skeletal muscle tissue lysate - total protein (ab29330)
Lane 2: Skeletal Muscle (Mouse) Tissue Lysate
Lane 3: Skeletal Muscle (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP), pre-adsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 223 kDa
Observed band size: 223 kDa

Exposure time: 1 minute

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 2% Bovine Serum Albumin before being incubated with ab91506 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution ab133406.
Immunohistochemical analysis of sheep muscle tissue frozen section, labeling Fast Myosin Skeletal Heavy Chain with ab91506. Samples were fixed in methanol, blocking was with 3% BSA for 30 minutes at 25°C. Samples were incubated with ab91506 diluted 1/200 for 16 hours at 4°C.

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