


## Product datasheet

# Anti-Fast Myosin Skeletal Heavy chain antibody ab91506

★★★★★ 5 Abreviews 22 References 4 Images

### Overview

---

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-Fast Myosin Skeletal Heavy chain antibody   |
| <b>Description</b>         | Rabbit polyclonal to Fast Myosin Skeletal Heavy chain  |
| <b>Host species</b>        | Rabbit   |
| <b>Tested applications</b> | <b>Suitable for:</b> IHC-Fr, WB, IHC-P   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Rat, Human, Pig<br><b>Predicted to work with:</b> Sheep, Guinea pig, Cow  |
| <b>Immunogen</b>           | Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Fast Myosin Skeletal Heavy chain. Read Abcam's proprietary immunogen policy                            |
| <b>Positive control</b>    | 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

---

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | 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. |
| <b>Storage buffer</b>       | Preservative: 0.02% Sodium Azide<br>Constituents: 1% BSA, PBS, pH 7.4  |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | 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.

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| IHC-Fr      | ★★★★★     | Use at an assay dependent concentration. PubMed: 23515448  |
| WB          |           | Use a concentration of 1 µg/ml. Detects a band of approximately 223 kDa (predicted molecular weight: 223 kDa). |
| IHC-P       | ★★★★★     | Use a concentration of 1 µg/ml.  |

## Target

|                              |  |
|------------------------------|--|
| <b>Function</b>              | Muscle contraction.  |
| <b>Sequence similarities</b> | Contains 1 IQ domain.<br>Contains 1 myosin head-like domain.   |
| <b>Domain</b>                | 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.<br>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). |
| <b>Cellular localization</b> | Cytoplasm > myofibril. Thick filaments of the myofibrils.  |

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fast Myosin Skeletal Heavy chain antibody (ab91506)

IHC image of Fast Myosin Skeletal Heavy chain staining in Mouse skeletal muscle FFPE section, performed on a Bond™ 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, 1 µg/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



**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.

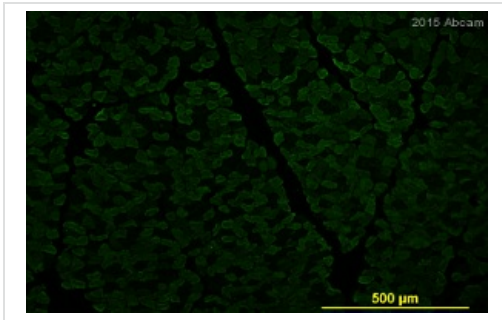
Performed under reducing conditions.

**Predicted band size:** 223 kDa

**Observed band size:** 223 kDa

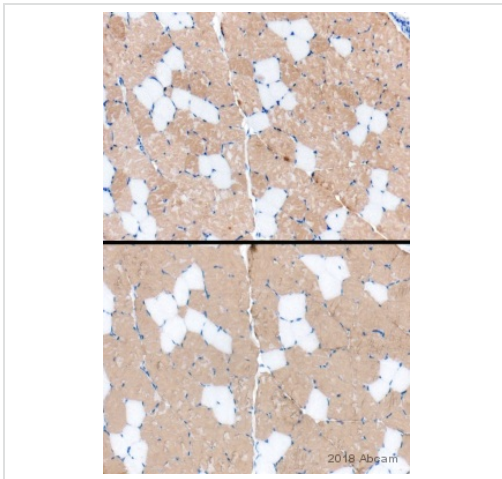
**Exposure time:** 1 minute

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](#).



Immunohistochemistry (Frozen sections) - Anti-Fast Myosin Skeletal Heavy chain antibody (ab91506)  
This image is courtesy of an anonymous Abreview.

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fast Myosin Skeletal Heavy chain antibody (ab91506)  
Image courtesy of Mr Carl Hobbs

Formalin-fixed, paraffin-embedded oig skeletal muscle tissue stained for Fast Myosin Skeletal Heavy chain using ab91506 at 1/1000 dilution (for 2 hours at room temperature) in immunohistochemical analysis (upper image).

Note: Lower image is a comparison using [ab51263](#).

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors