Product datasheet

Anti-Fast Myosin Skeletal Heavy chain antibody
ab91506

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: WB, IHC-P
Species reactivity
Reacts with: Mouse, Rat, Human, Pig
Predicted to work with: Sheep, Guinea pig, Cow
Immunogen  Synthetic peptide corresponding to Human Fast Myosin Skeletal Heavy chain aa 1-100 conjugated to keyhole limpet haemocyanin.
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  pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications
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.

Target

Application | Abreviews | Notes
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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. |

Images

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.

Formalin-fixed, paraffin-embedded pig 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.

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.
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