**Anti-Fast Myosin Skeletal Heavy chain + MYH4 antibody [EPR22880-64] ab221149**

**Overview**

**Product name**  
Anti-Fast Myosin Skeletal Heavy chain + MYH4 antibody [EPR22880-64]

**Description**  
Rabbit monoclonal [EPR22880-64] to Fast Myosin Skeletal Heavy chain + MYH4

**Host species**  
Rabbit

**Tested applications**  
Suitable for: WB, IHC-P  
Unsuitable for: Flow Cyt, ICC/IF, IHC-Fr or IP

**Species reactivity**  
Reacts with: Human

**Immunogen**  
Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

**Positive control**  
WB: Human skeletal muscle tissue lysate. IHC-P: 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**

<table>
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<tr>
<th>Property</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
| **Storage buffer**  | pH: 7.2  
Preservative: 0.01% Sodium azide  
Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Purity**          | Protein A purified                           |
| **Clonality**       | Monoclonal                                   |
| **Clone number**    | EPR22880-64                                  |
Isotype  
IgG

Applications

The Abpromise guarantee  
Our Abpromise guarantee covers the use of ab221149 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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<td>WB</td>
<td>1/1000. Predicted molecular weight: 223 kDa.</td>
<td></td>
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<tr>
<td>IHC-P</td>
<td>1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.</td>
<td></td>
</tr>
</tbody>
</table>

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

Target

Cellular localization  
Fast Myosin Skeletal Heavy chain: Cytoplasm > myofibril. Thick filaments of the myofibrils. MYH4: Cytoplasm > myofibril. Thick filaments of the myofibrils.

Images

Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue labeling Fast Myosin Skeletal Heavy chain + MYH4 with ab221149 at 1/1000 dilution (0.505 μg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in human skeletal muscle (PMID: 30274168, 25217814).
The section was incubated with ab221149 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling Fast Myosin Skeletal Heavy chain + MYH4 with ab221149 at 1/1000 dilution (0.505 μg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Negative control: No staining on human liver (PMID: 30274168). The section was incubated with ab221149 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Anti-Fast Myosin Skeletal Heavy chain + MYH4 antibody [EPR22880-64] (ab221149) at 1/1000 dilution + Human skeletal muscle tissue lysate at 20 µg

Secondary
VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 223 kDa

Exposure time: 37 seconds

Blocking/diluting buffer and concentration: 5% NFDM/TBST.
**Why choose a recombinant antibody?**

- **Research with confidence**
  - Consistent and reproducible results

- **Long-term and scalable supply**
  - Recombinant technology

- **Success from the first experiment**
  - Confirmed specificity

- **Ethical standards compliant**
  - Animal-free production

**Anti-Fast Myosin Skeletal Heavy chain + MYH4 antibody [EPR22880-64] (ab221149)**

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

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