Anti-Myosin antibody [414] ab8070

Overview

Product name: Anti-Myosin antibody [414]
Description: Mouse monoclonal [414] to Myosin
Host species: Mouse
Specificity: This monoclonal antibody reacts in immunoblots specific with myosin and is specific to the 75kD of Myosin. Does not react with alpha-cardiac myosin. Does not react with the light-chain but with the last 75 kD of the myosin molecule. These 75 kD are located on a myosin-common site-chain.

Tested applications: Suitable for: IHC-Fr, ICC, IHC-P, WB
Species reactivity: Reacts with: Chicken
Positive control: Chicken muscle myomyofibrils.

Properties

Form: Liquid
Storage buffer: Preservative: 0.1% Sodium azide
Constituent: 1% BSA
Purity: Tissue culture supernatant
Primary antibody notes: This antibody, directed against myosin can be used for detection of myosin in frozen sections as well as in cultured cells. Applicable in paraffin sections only with microwave oven pretreatment. Also works in immunoblotting.
Clonality: Monoclonal
Clone number: 414
Isotype: IgM
Light chain type: unknown

Applications

Our Abpromise guarantee covers the use of ab8070 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>Application</th>
<th>Abreviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>ICC</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration. Use at 1/5 - 1/10. (Only with microwave oven pretreatment. Based on the Indirect method, with a normal ABC method the dilution can be 5-10 times higher). Dilute immediately before use with PBS or Tris.</td>
</tr>
<tr>
<td>WB</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Target

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

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