Datasheet: VMA00419

Description: MOUSE ANTI TROPONIN I (CARDIAC)

Specificity: TROPONIN I (CARDIAC)

Format: Purified

Product Type: PrecisionAb Monoclonal

Isotype: IgG2a

Quantity: 100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
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<tr>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Western Blotting</td>
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<td>1/1000</td>
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The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click here to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Product Form

Purified IgG - liquid

Preparation

Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Immunogen

Native troponin I protein purified from human cardiac tissue

External Database Links

UniProt: P19429

Entrez Gene: 7137 TNNI3

Synonyms

TNNC1

Specificity

Mouse anti Human troponin I (cardiac) antibody recognizes the troponin I (TnI) protein
expressed in the heart tissue also known as troponin I type 3 (cardiac). Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. Encoded by the TNN13 gene, TnI-cardiac is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM) (provided by RefSeq, Jul 2008).

Mouse anti Human troponin I (cardiac) antibody detects a band of 24 kDa. The antibody has been validated for western blotting using human heart lysate.

### Western Blotting

Anti troponin (cardiac) detects a band of approximately 24 kDa in human heart tissue

### Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

### Guarantee

As supplied, 12 months from date of despatch.

### Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

### Health And Safety Information


### Regulatory

For research purposes only

### Related Products

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG (H/L) (STAR207...) **HRP**

**Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL (MCA929)