**Datasheet: AHP1268**

<table>
<thead>
<tr>
<th>Description</th>
<th>GOAT ANTI HUMAN TROPONIN I (CARDIAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>TROPONIN I (CARDIAC)</td>
</tr>
<tr>
<td>Format</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type</td>
<td>Polyclonal Antibody</td>
</tr>
<tr>
<td>Isotype</td>
<td>Polyclonal IgG</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.2 mg</td>
</tr>
</tbody>
</table>

**Product Details**

| RRID                         | AB_844683                                    |

**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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Western Blotting</td>
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<tr>
<td>Immunofluorescence</td>
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</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

**Target Species**

Human

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by Immunoaffinity chromatography

**Antiserum Preparation**

Antisera to human cardiac troponin I were raised by repeated immunisations of goats with highly purified antigen.

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Approx. Protein Concentrations**

IgG concentration 1.0mg/ml

**Immunogen**

Native human cardiac troponin I, purity greater than 98%.

**External Database Links**

UniProt:
Related reagents

Entrez Gene:
7137 TNNI3

Synonyms TNNC1

Specificity

Goat anti Human Troponin I antibody recognizes human cardiac-specific troponin I (TnI) an integral inhibitory protein of cardiac muscle which exists as a complex with troponin C (TnC) and troponin T (TnT).

The TnT subunit of troponin binds to tropomyosin to form a troponin-tropomyosin complex, anchored in place by the binding of TnI to actin, within muscle thin filaments. Structural change resulting from the binding of calcium to specific sites on the regulatory TnC subunit, releases the inhibitory region of TnI from actin, enabling the attachment of the molecular motor protein myosin, allowing for muscle contraction and hence movement.

The measurement of blood TnI and TnT levels is an important diagnostic indicator of heart muscle damage, and can be used to differentiate between angina and myocardial infarction in patients with chest pain. Troponin I has also been shown to inhibit angiogenesis in vivo and in vitro.

References


Further Reading


Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch.

Health And Safety Information


Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP