




## Product datasheet

# Anti-TNNI1 antibody ab231720

2 References 6 Images

### Overview

<b>Product name</b>	Anti-TNNI1 antibody
<b>Description</b>	Rabbit polyclonal to TNNI1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Pig <b>Predicted to work with:</b> Mouse, Rabbit, Human 
<b>Immunogen</b>	<p>Recombinant full length protein (His-tag) corresponding to Rat TNNI1 aa 1-187. (Expressed in E.coli)</p> <p>Sequence:</p> <p>MPEVERKSKITASRKLMLKSLMLAKAKECWEQEHEEREA            EKVRYLSERIP            TLQTRGLSLSALQDLCRELHAKVEVVDEERYDIEAKCLHN            TREIKDLKLK            VLDLRGKFKRPPLRRVRVSADAMLRALLGSKHKVSMDLR            ANLKS VKKEDT            EKERPVEVGDWRKNVEAMSGMEGRKKMFDAAKSPTLQ</p> <p>Database link: <a href="#">P13413</a></p> <p style="text-align: right;"> <a href="#">Run BLAST with</a>       <a href="#">Run BLAST with</a></p>
<b>Positive control</b>	WB: Recombinant rat TNNI1 protein; Pig and rat heart and skeletal muscle lysates. IHC-P: Rat skeletal muscle tissue.
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been "predicted to work</p>

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab231720 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab231720** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 22 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

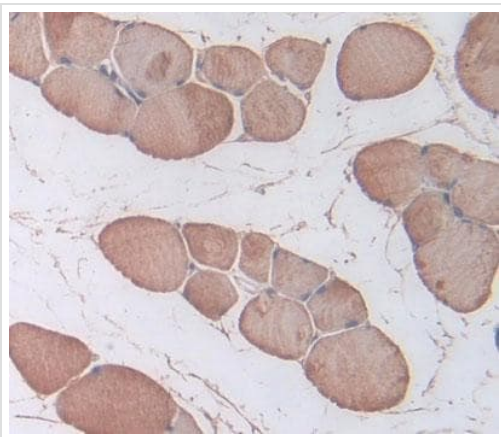
## Target

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<b>Function</b>	Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.
<b>Tissue specificity</b>	Highest levels observed in human skeletal muscle (e.g. gastrocnemius muscle), differentiated cultures of primary human muscle cells and rhabdomyosarcoma cells cultured in low serum medium. Expressed in C2 muscle cell myoblasts and myotubes.
<b>Sequence similarities</b>	Belongs to the troponin I family.

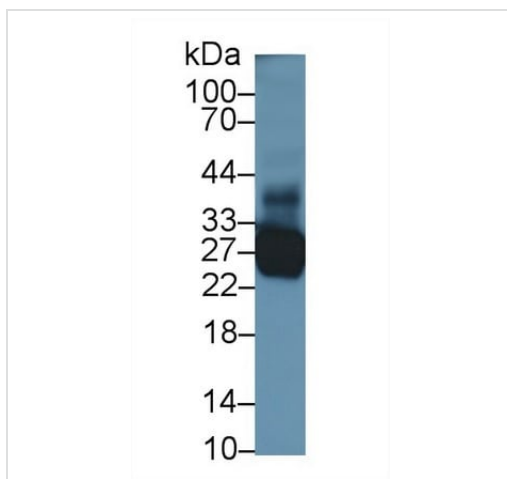
## Images

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNNI1 antibody (ab231720)

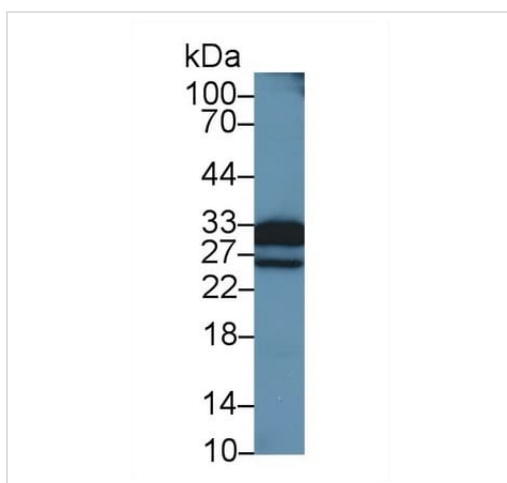
Formalin-fixed, paraffin-embedded rat skeletal muscle tissue stained for TNNI1 using ab231720 at 20  $\mu\text{g/ml}$  in immunohistochemical analysis.



Western blot - Anti-TNNI1 antibody (ab231720)

Anti-TNNI1 antibody (ab231720) at 2  $\mu\text{g/ml}$  + Pig skeletal muscle lysate.

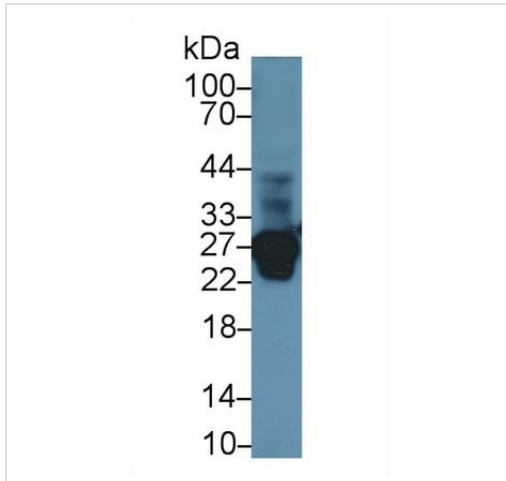
**Predicted band size:** 22 kDa



Western blot - Anti-TNNI1 antibody (ab231720)

Anti-TNNI1 antibody (ab231720) at 1  $\mu\text{g/ml}$  + Rat heart lysate.

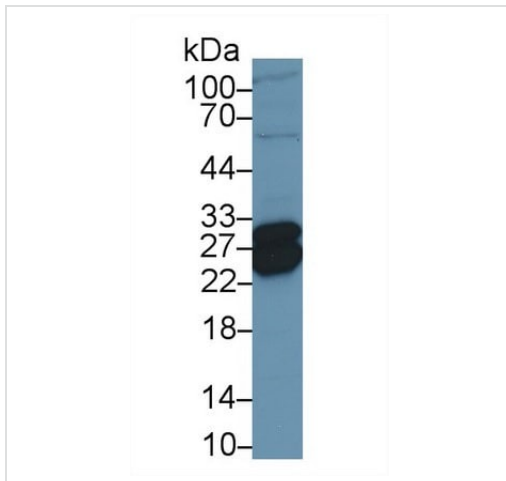
**Predicted band size:** 22 kDa



Western blot - Anti-TNNI1 antibody (ab231720)

Anti-TNNI1 antibody (ab231720) at 2  $\mu$ g/ml + Rat skeletal muscle lysate.

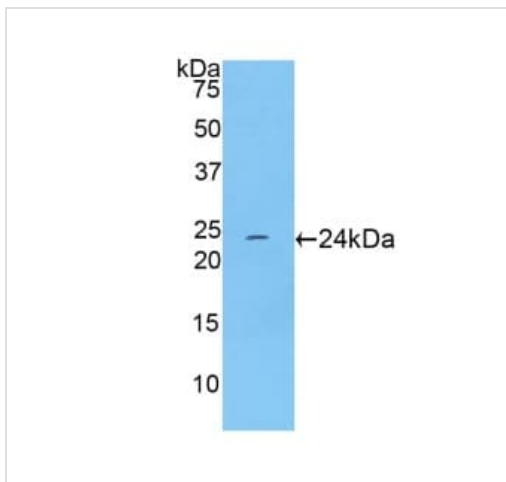
**Predicted band size:** 22 kDa



Western blot - Anti-TNNI1 antibody (ab231720)

Anti-TNNI1 antibody (ab231720) at 2  $\mu$ g/ml + Pig heart lysate.

**Predicted band size:** 22 kDa



Western blot - Anti-TNNI1 antibody (ab231720)

Anti-TNNI1 antibody (ab231720) at 2  $\mu$ g/ml + Recombinant rat TNNI1 protein.

**Predicted band size:** 22 kDa

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

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