

Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)] ab184554

Recombinant RabMAb

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Overview

Product name	Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)]
Description	Rabbit monoclonal [EPR14927(B)] to Troponin I fast skeletal muscle
Host species	Rabbit
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human skeletal muscle, mouse muscle and rat muscle lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14927(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab184554 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
IP		1/20.
WB		1/10000 - 1/50000. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).

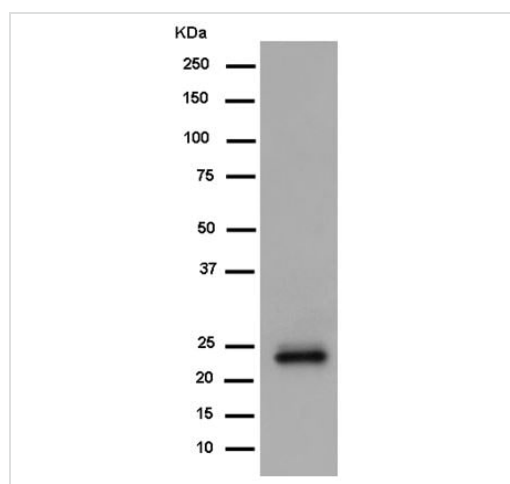
Target

Function Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

Involvement in disease Defects in TNNI2 are a cause of distal arthrogryposis type 2B (DA2B) [MIM:601680]; also known as arthrogryposis multiplex congenita, distal, type 2B (AMCD2B). DA2B is a form of inherited multiple congenital contractures. Affected individuals have vertical talus, ulnar deviation in the hands, severe camptodactyly, and a distinctive face characterized by a triangular shape, prominent nasolabial folds, small mouth and a prominent chin.

Sequence similarities Belongs to the troponin I family.

Images



Western blot - Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)] (ab184554)

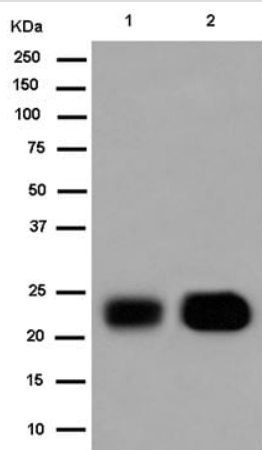
Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)] (ab184554) at 1/20000 dilution + Human skeletal muscle lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa



Western blot - Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)] (ab184554)

All lanes : Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)] (ab184554) at 1/20000 dilution

Lane 1 : Mouse muscle lysate

Lane 2 : Rat muscle lysate

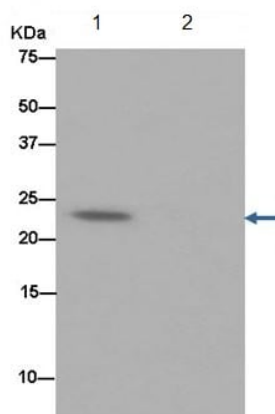
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa



Immunoprecipitation - Anti-Troponin I fast skeletal muscle antibody [EPR14927(B)] (ab184554)

Western blot analysis of Troponin I fast skeletal muscle in Human skeletal muscle lysate immunoprecipitated using ab184554 at 1/50 dilution (Lane 1). Lane 2: PBS instead of Human skeletal muscle lysate.

Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Troponin I fast skeletal muscle antibody
[EPR14927(B)] (ab184554)

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

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