abcam

Product datasheet

Anti-MYH7B antibody [EPR12290] ab172967

Recombinant RabMAb

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Overview

Product name	Anti-MYH7B antibody [EPR12290]
Description	Rabbit monoclonal [EPR12290] to MYH7B
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal muscle, fetal heart and skeletal muscle lysates. IHC-P: Human skeletal muscle, cardiac muscle, pancreas and heart tissues. ICC/IF: Rat glial tumor cell line.
General notes	The mouse and rat recommendation is based on the WB results. This antibody may not be suitable for IHC with mouse or rat samples. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12290

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab172967 in the following tested applications.

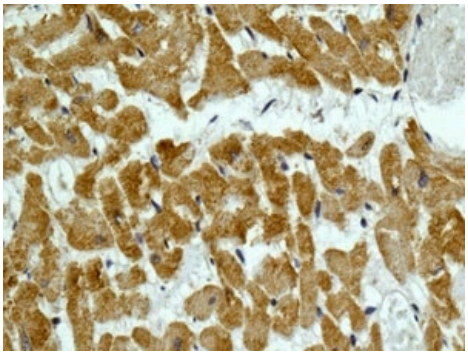
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (1)	1/1000 - 1/5000. Predicted molecular weight: 221 kDa.
IHC-P	★★★★★ (1)	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified format use at 1/250 - 1/500.**

Target

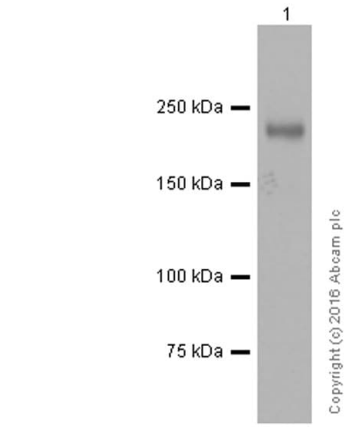
Function	Involved in muscle contraction.
Tissue specificity	Expressed in heart, skeletal muscle, testis, and all specific brain regions examined. Slightly lower expression was detected in ovary and kidney, and intermediate expression was detected in lung, pancreas, spleen and liver.
Sequence similarities	Contains 1 IQ domain. Contains 1 myosin head-like domain.
Developmental stage	Found in fetal liver and brain.
Cellular localization	Membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

Immunohistochemical analysis of paraffin embedded Human heart tissue labeling MYH7B with ab172967 at a 1/250 dilution.



Western blot - Anti-MYH7B antibody [EPR12290] (ab172967)

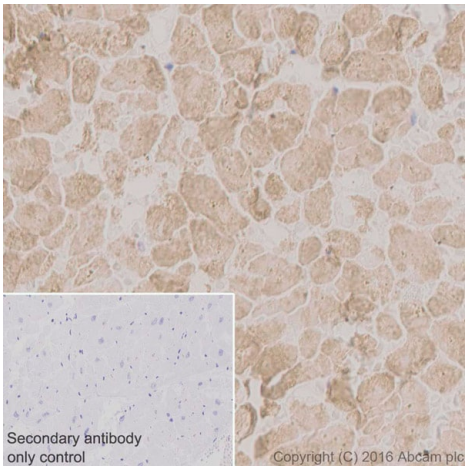
Anti-MYH7B antibody [EPR12290] (ab172967) at 0.05 µg/ml (Purified) + Human fetal muscle lysate at 20 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

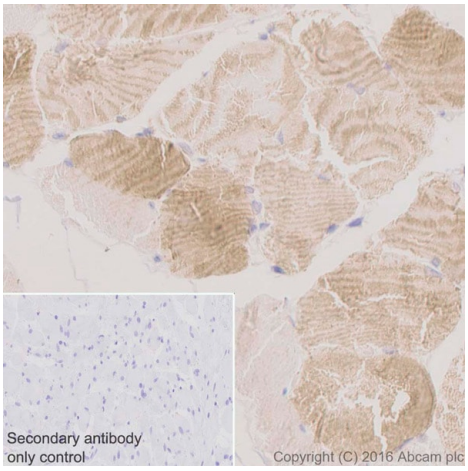
Predicted band size: 221 kDa
Observed band size: 221 kDa

Blocking and diluting buffer: 5% NFDM/TBST



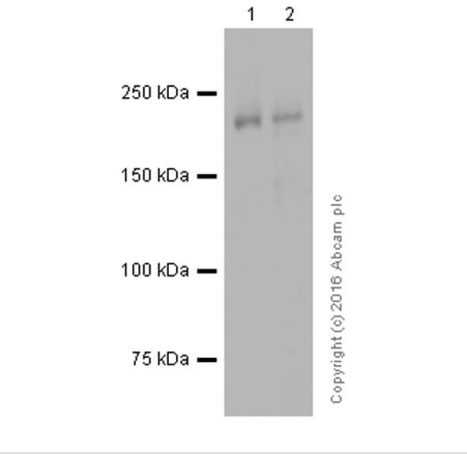
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cardiac muscle tissue sections labeling MYH7B with Purified ab172967 at 1:1000 dilution (1.03 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Tissue was counterstained with Hematoxylin. **ab97051** Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1:500 dilution. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human skeletal muscle tissue sections labeling MYH7B with Purified ab172967 at 1:1000 dilution (1.03 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, PH9. Tissue was counterstained with Hematoxylin. **ab97051** Goat Anti-Rabbit IgG H&L (HRP) secondary antibody was used at 1:500 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-MYH7B antibody [EPR12290] (ab172967)

All lanes : Anti-MYH7B antibody [EPR12290] (ab172967) at 0.1 µg/ml (Purified)

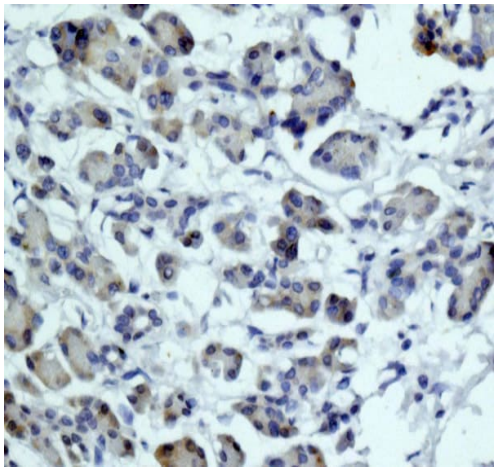
Lane 1 : Mouse heart lysate
Lane 2 : Rat heart lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

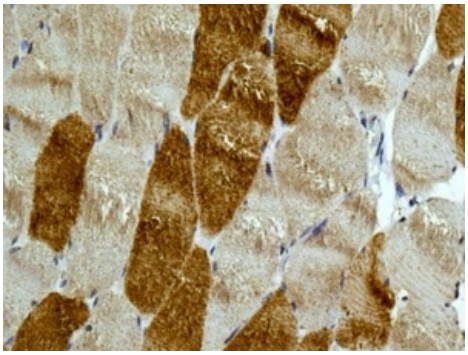
Predicted band size: 221 kDa
Observed band size: 221 kDa

Blocking and diluting buffer: 5% NFDM/TBST



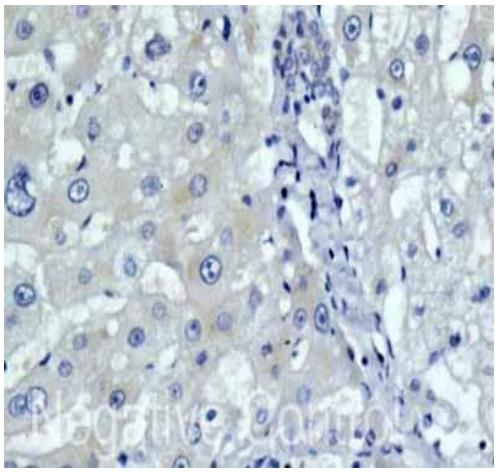
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

ab172967 showing +ve staining in Human normal pancreas tissue.



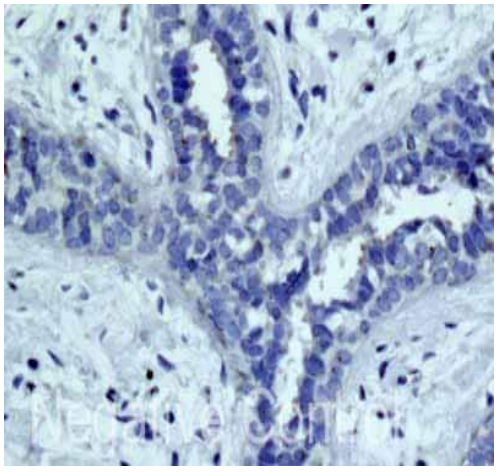
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

Immunohistochemical analysis of paraffin embedded Human skeletal muscle tissue labeling MYH7B with ab172967 at a 1/250 dilution.



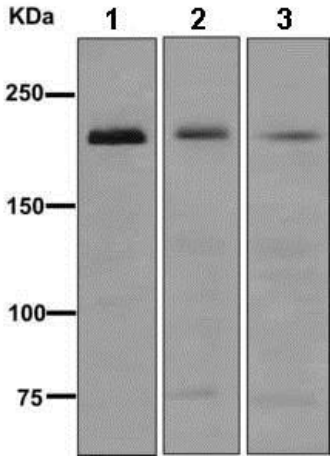
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

ab172967 showing -ve staining in Human normal liver tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYH7B antibody [EPR12290] (ab172967)

ab172967 showing -ve staining in Human normal breast tissue.



Western blot - Anti-MYH7B antibody [EPR12290] (ab172967)

All lanes : Anti-MYH7B antibody [EPR12290] (ab172967) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal muscle lysates

Lane 2 : Human fetal heart lysates

Lane 3 : Human skeletal muscle lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 221 kDa

Anti-MYH7B antibody [EPR12290] (ab172967)

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