


Product datasheet

Anti-PGAM2 antibody [EPR15193(B)] ab183027

Recombinant RabMAb

5 Images

Overview

Product name	Anti-PGAM2 antibody [EPR15193(B)]
Description	Rabbit monoclonal [EPR15193(B)] to PGAM2
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IP, IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human skeletal muscle lysate; Human fetal heart lysate; Human skeletal muscle tissue; Jurkat cells.
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	EPR15193(B)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183027 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
Flow Cyt (Intra)		1/20. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/30 - 1/50.
IHC-P		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/10000 - 1/50000. Predicted molecular weight: 29 kDa.

Target

Function

Interconversion of 3- and 2-phosphoglycerate with 2,3-bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase) and EC 3.1.3.13 (phosphatase), but with a reduced activity.

Tissue specificity

In mammalian tissues there are two types of phosphoglycerate mutase isozymes: type-M in muscles and type-B in other tissues.

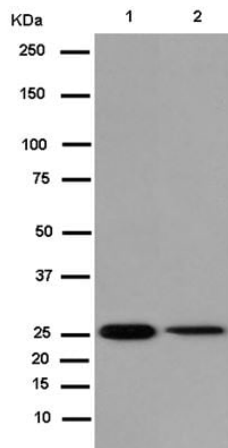
Involvement in disease

Defects in PGAM2 are the cause of glycogen storage disease type 10 (GSD10) [MIM:261670]. A metabolic disorder characterized by myoglobinuria, increased serum creatine kinase levels, decreased phosphoglycerate mutase activity, myalgia, muscle pain, muscle cramps and exercise intolerance.

Sequence similarities

Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily.

Images



Western blot - Anti-PGAM2 antibody [EPR15193(B)] (ab183027)

All lanes : Anti-PGAM2 antibody [EPR15193(B)] (ab183027) at 1/20000 dilution

Lane 1 : Human skeletal muscle tissue lysate

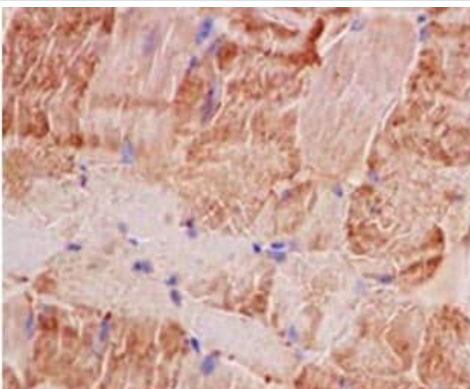
Lane 2 : Human fetal heart tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

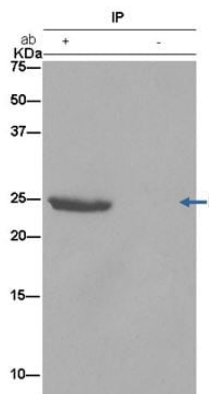
Predicted band size: 29 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGAM2 antibody [EPR15193(B)] (ab183027)

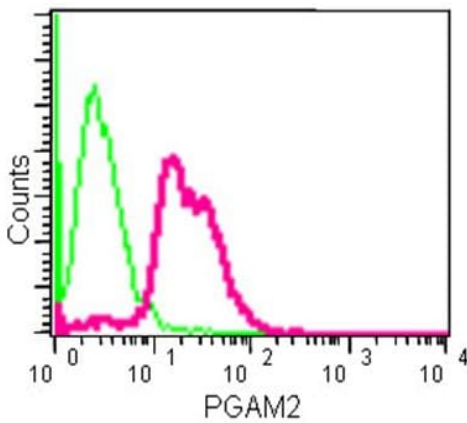
Immunohistochemistry analysis of paraffin embedded Human skeletal muscle tissue, labeling PGAM2 with ab183027 at 1/500 dilution. Counterstained with Hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-PGAM2 antibody
[EPR15193(B)] (ab183027)


Immunoprecipitation analysis of Human skeletal muscle lysate, labeling PGAM2 with ab183027 at 1/50 dilution (lane 1) and negative control (lane 2) Anti-Rabbit IgG (HRP) secondary antibody used at 1/1500 dilution (lane 1) and blocking buffer was 5% NFDN/TBST.



Flow Cytometry (Intracellular) - Anti-PGAM2
antibody [EPR15193(B)] (ab183027)

Intracellular Flow Cytometry analysis of Jurkat cells fixed with 2% paraformaldehyde, labeling PGAM2 with ab183027 at 1/20 dilution. Goatanti Rabbit IgG secondary antibody used at 1/150 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-PGAM2 antibody [EPR15193(B)] (ab183027)

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