

Product datasheet

Anti-BPGM antibody [EPR15128] ab186739

Recombinant RabMAb

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Overview

Product name	Anti-BPGM antibody [EPR15128]
Description	Rabbit monoclonal [EPR15128] to BPGM
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human placenta lysate, Human blood lysate; HeLa 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	EPR15128
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab186739 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)		1/110. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 30 kDa (predicted molecular weight: 30 kDa).
IP		1/50 - 1/70.

Target

Function

Plays a major role in regulating hemoglobin oxygen affinity by controlling the levels of 2,3-bisphosphoglycerate (2,3-BPG). Also exhibits mutase (EC 5.4.2.1) and phosphatase (EC 3.1.3.13) activities.

Involvement in disease

Defects in BPGM are the cause of bisphosphoglycerate mutase deficiency (BPGMD) [MIM:222800]. A disease characterized by hemolytic anemia, splenomegaly, cholelithiasis and cholecystitis.

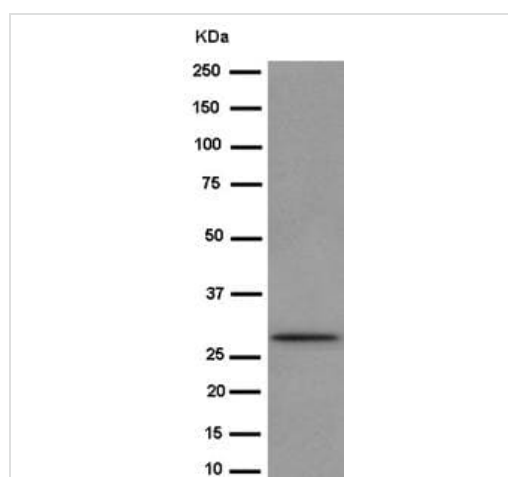
Sequence similarities

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

Post-translational modifications

Glycation of Lys-159 in diabetic patients inactivates the enzyme.

Images



Western blot - Anti-BPGM antibody [EPR15128] (ab186739)

Anti-BPGM antibody [EPR15128] (ab186739) at 1/10000 dilution + Human blood lysate at 10 µg

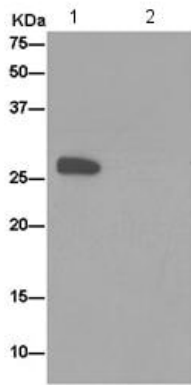
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab136636**) at 1/1000 dilution

Developed using the ECL technique.

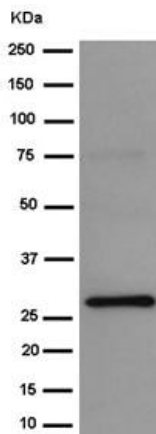
Predicted band size: 30 kDa

Observed band size: 30 kDa



Immunoprecipitation - Anti-BPGM antibody
[EPR15128] (ab186739)

Western blot analysis on immunoprecipitation from 1) Human blood lysate and 2) PBS, labeling BPGM using 186739 at 1/50 dilution and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG at a 1/1500 dilution.



Western blot - Anti-BPGM antibody [EPR15128]
(ab186739)

Anti-BPGM antibody [EPR15128] (ab186739) at 1/1000 dilution + Human placenta lysate at 20 µg

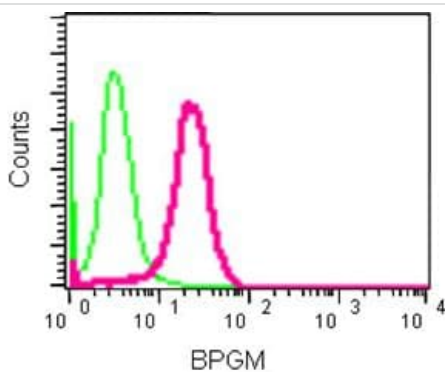
Secondary

goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 30 kDa





Observed band size: 30 kDa



Flow Cytometry (Intracellular) - Anti-BPGM antibody
[EPR15128] (ab186739)

Intracellular Flow Cytometry analysis of paraformaldehyde-fixed HeLa cells labeling BPGM with ab186739 at a 1/110 dilution and secondary antibody goat anti-rabbit IgG (FITC, red) at a 1/150 dilution, or negative control rabbit IgG (green).

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>

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

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