

Product datasheet

Anti-PFKFB3 (phospho S461) antibody [EPR19735] ab202291

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [5 References](#) [5 Images](#)

Overview

Product name	Anti-PFKFB3 (phospho S461) antibody [EPR19735]
Description	Rabbit monoclonal [EPR19735] to PFKFB3 (phospho S461)
Host species	Rabbit
Tested applications	Suitable for: Dot blot, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293T transfected with mPFKFB3 (WT) whole cell lysate. ICC/IF: Flag-mPFKFB3 transfected HEK-293T 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	EPR19735

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab202291 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
Dot blot		1/1000.
WB	★ ★ ★ ★ ★ (2)	1/1000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
ICC/IF		1/100.

Target

Function

Synthesis and degradation of fructose 2,6-bisphosphate.

Tissue specificity

Ubiquitous.

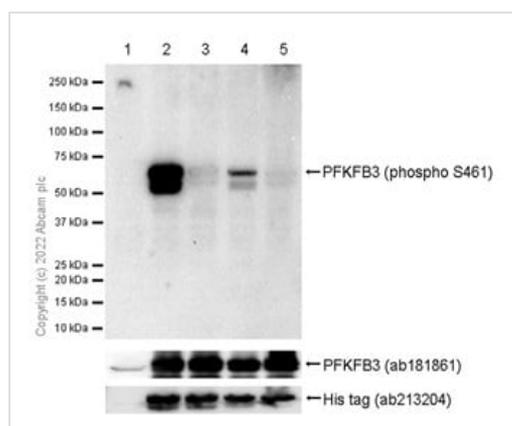
Sequence similarities

In the C-terminal section; belongs to the phosphoglycerate mutase family.

Post-translational modifications

Phosphorylation by AMPK stimulates activity.

Images



Western blot - Anti-PFKFB3 (phospho S461) antibody [EPR19735] (ab202291)

All lanes : Anti-PFKFB3 (phospho S461) antibody [EPR19735] (ab202291)

Lane 1 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with empty vector, whole cell lysate

Lane 2 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with human PFKFB3 (WT) whole cell lysate

Lane 3 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with human PFKFB3 (S461A mutant) whole cell lysate

Lane 4 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with mouse PFKFB3 (WT) whole cell lysate

Lane 5 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with mouse PFKFB3 (S461A mutant) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 60 kDa

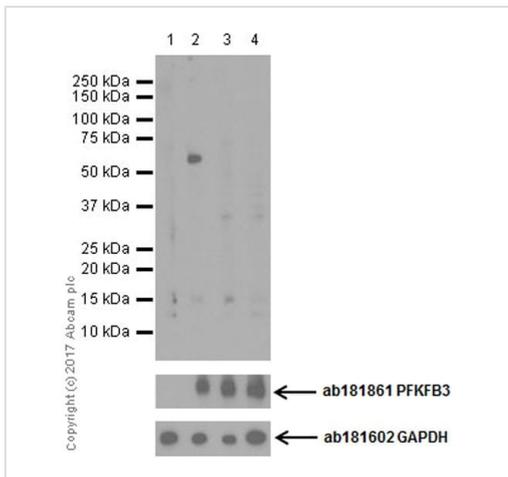
Observed band size: 60 kDa

Exposure time: 180 seconds

Blocking and diluting buffer and concentration:

5% NFDM/TBST

We internally failed to obtain clear signal while detecting nature samples.



Western blot - Anti-PFKFB3 (phospho S461) antibody [EPR19735] ([ab202291](#))

All lanes : Anti-PFKFB3 (phospho S461) antibody [EPR19735] ([ab202291](#)) at 1/1000 dilution

Lane 1 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with empty vector (vector control), whole cell lysate

Lane 2 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with mPFKFB3 (WT) whole cell lysate

Lane 3 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with mPFKFB3 (WT), then treated with alkaline phosphatase for 1 hour, whole cell lysate

Lane 4 : HEK-293T (Human epithelial cell line from embryonic kidney) transfected with mPFKFB3 S461A mutant, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

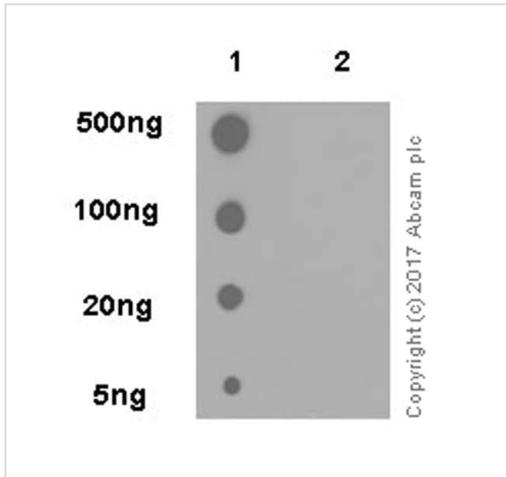
Predicted band size: 60 kDa

Observed band size: 60 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 2% BSA/TBST.

The plasmids were kindly provided by our collaborator Dr. Jianghuai Liu, Nanjing University MARC.



Dot Blot - Anti-PFKFB3 (phospho S461) antibody [EPR19735] (ab202291)

Dot blot analysis of PFKFB3 (phospho S461) labeled with ab202291 at 1/1000 dilution.

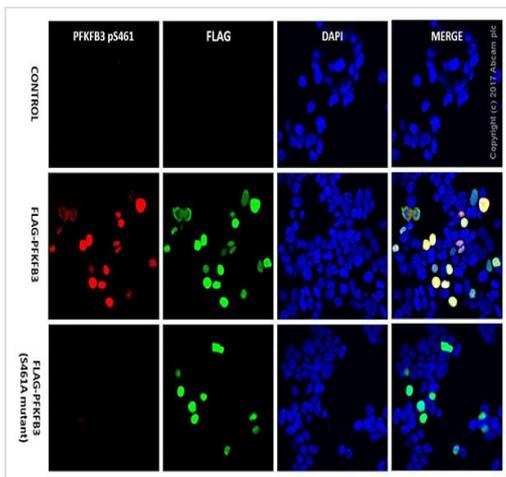
Lane 1: PFKFB3 (phospho S461) peptide;

Lane 2: PFKFB3 non-phospho peptide.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 was used as secondary antibody.

Blocking and diluting buffer: 5% NFD/MTBST.

Exposure time: 10 seconds.



Immunocytochemistry/ Immunofluorescence - Anti-PFKFB3 (phospho S461) antibody [EPR19735] (ab202291)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized HEK-293T (Human epithelial cell line from embryonic kidney) cells labeling PFKFB3 (phospho S461) with ab202291 at 1/100 dilution. Counterstained with Anti-FLAG antibody (green).

The results showed positive staining on Flag-mPFKFB3 transfected HEK-293T cells and no staining on Flag-mPFKFB3 S461A mutant transfected HEK-293T cells. The image was provided by our collaborator Dr. Jianghuai Liu, Nanjing University MARC.

The nuclear counter stain is DAPI (blue).

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-PFKFB3 (phospho S461) antibody [EPR19735]
(ab202291)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors