abcam

Product datasheet

Anti-PFKFB3 antibody [EPR12594] ab181861

敲除验证 重组 RabMAb

6 Abreviews 57 References 12 图像

概述

产品名称	Anti-PFKFB3抗体[EPR12594]
描述	兔单克隆抗体[EPR12594] to PFKFB3
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IP, ICC/IF, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat and HeLa whole cell lysate (**ab150035**); Human melanoma tissue; HeLa and A431 cells, Mouse skin tissue lysate, Rat breast tissue lysate, AR42 and L6 whole cell lysates, HAP1 whole cell lysate, AR42J (rat pancreatic tumor epithelial cell) whole cell lysate, IP: Mouse skin tissue lysate, AR42J, whole cell lysate ICC: HeLa, A431 cells IHC: human melanoma tissue Flow: A431 (human epidermoid carcinoma) cells,
常规说明	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**.

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR12594

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab181861**于以下的**经测试应用

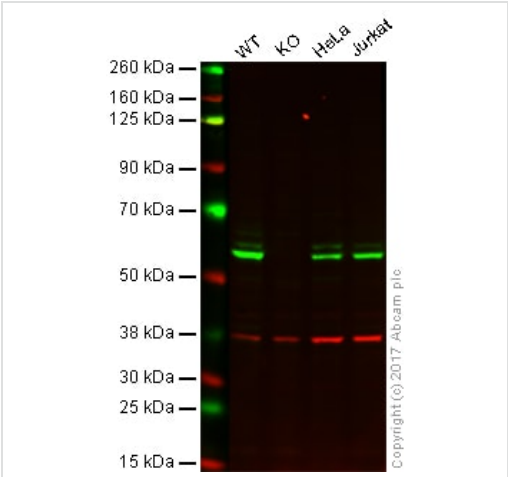
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB	★★★★★ (5)	1/1000 - 1/10000. Detects a band of approximately 58 kDa (predicted molecular weight: 60 kDa).
IP		1/50.
ICC/IF		1/100.
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

靶标

功能	Synthesis and degradation of fructose 2,6-bisphosphate.
组织特异性	Ubiquitous.
序列相似性	In the C-terminal section; belongs to the phosphoglycerate mutase family.
翻译后修饰	Phosphorylation by AMPK stimulates activity.

图片



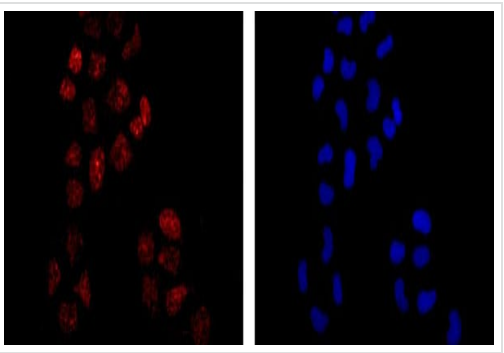
Western blot - Anti-PFKFB3 antibody [EPR12594] (ab181861)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: PFKFB3 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: Jurkat whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab181861 observed at 60 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

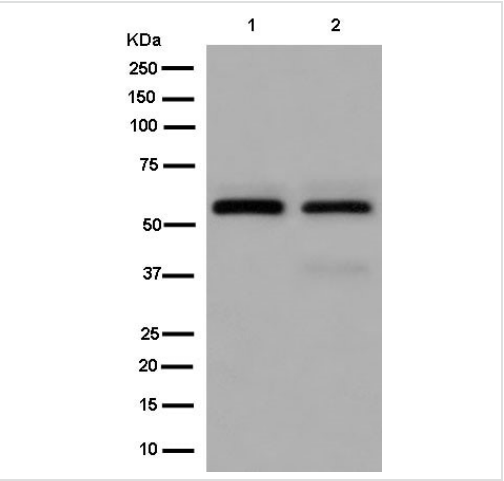
ab181861 was shown to specifically react with PFKFB3 in wild-type HAP1 cells as signal was lost in PFKFB3 knockout cells. Wild-type and PFKFB3 knockout samples were subjected to SDS-PAGE. Ab181861 and **ab9484** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse

IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-PFKFB3 antibody [EPR12594] (ab181861)

Immunofluorescent analysis of acetone-fixed HeLa cells labeling PFKFB3 with ab181861 at 1/100 dilution, followed by Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution. Counter stained with Dapi (blue).



Western blot - Anti-PFKFB3 antibody [EPR12594] (ab181861)

All lanes : Anti-PFKFB3 antibody [EPR12594] (ab181861) at 1/20000 dilution

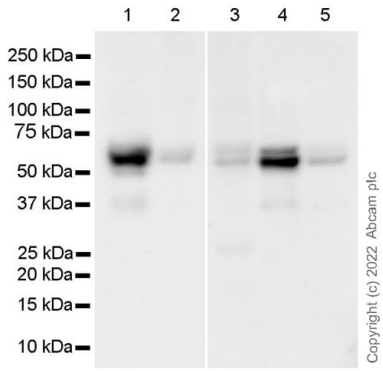
Lane 1 : Jurkat cell lysate
Lane 2 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

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

Predicted band size: 60 kDa
Observed band size: 58 kDa

Blocking buffer: 5% NFDM/TBST



Western blot - Anti-PFKFB3 antibody [EPR12594] (ab181861)

All lanes : Anti-PFKFB3 antibody [EPR12594] (ab181861) at 1/1000 dilution

Lane 1 : A431 (human epidermoid carcinoma epithelial cell) whole cell lysate
Lane 2 : Mouse skin tissue lysate
Lane 3 : Rat breast tissue lysate
Lane 4 : AR42J (rat pancreatic tumor epithelial cell) whole cell lysate
Lane 5 : L6 (rat skeletal muscle myoblast) 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

Developed using the ECL technique.

Performed under reducing conditions.

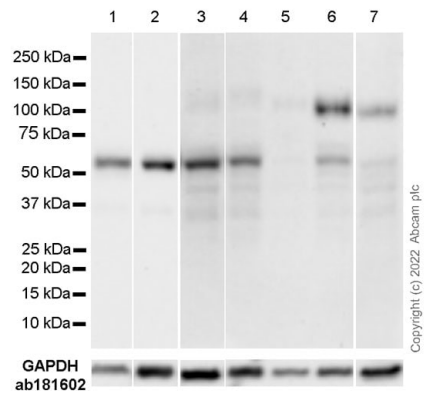
Predicted band size: 60 kDa
Observed band size: 60 kDa

Exposure time: 15 seconds

Blocking buffer: 5% NFDM/TBST

Exposure time: 15 seconds

This blot was developed using a high sensitivity ECL substrate.



Western blot - Anti-PFKFB3 antibody [EPR12594] (ab181861)

All lanes : Anti-PFKFB3 antibody [EPR12594] (ab181861) at 1/1000 dilution

Lane 1 : A431 (human epidermoid carcinoma epithelial cell), whole cell lysate
Lane 2 : bEnd.3 (mouse brain endothelial cell), whole cell lysate
Lane 3 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate
Lane 4 : 4T1 (mouse mammary gland carcinoma epithelial cell), whole cell lysate
Lane 5 : Undifferentiated 3T3-L1 (mouse embryonic fibroblast), whole cell lysate
Lane 6 : 3T3-L1 (mouse embryonic fibroblast) differentiated into adipocyte-like cells, whole cell lysate
Lane 7 : C2C12 (mouse myoblast), 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

Developed using the ECL technique.

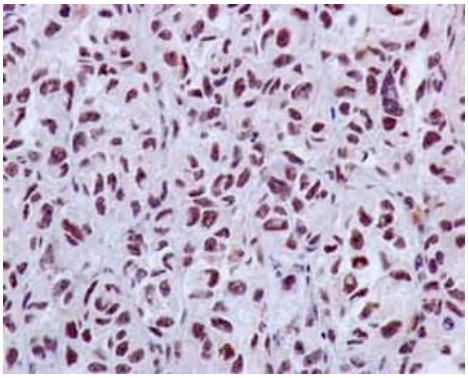
Performed under reducing conditions.

Predicted band size: 60 kDa
Observed band size: 60 kDa

Exposure time: Lane 1-2: 26 seconds, Lane 3-7: 48 seconds

Blocking buffer and concentration: 5% NFDM/TBST

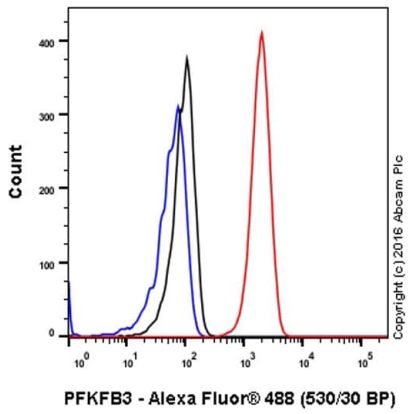
Lane 3-7 were developed using a high sensitivity ECL substrate.
The expression level of PFKFB3 is upregulated during 3T3-L1 differentiation (PMID: 16306349).
The band at approximately 110 kDa is likely to be PFKFB3 dimer (PMID: 31889092).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PFKFB3 antibody [EPR12594] (ab181861)

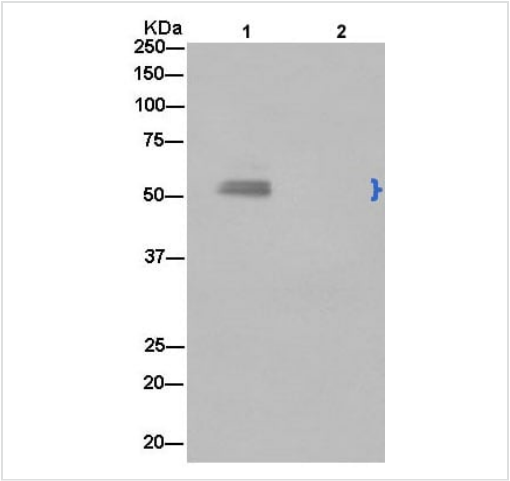
Immunohistochemical analysis of paraffin-embedded human melanoma tissue labeling PFKFB3 with ab181861 at 1/50 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-PFKFB3 antibody [EPR12594] (ab181861)

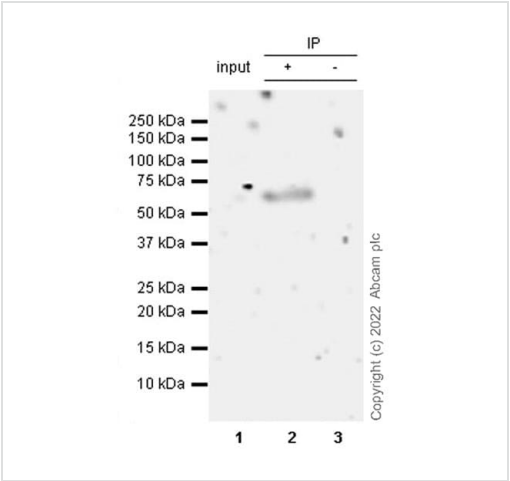
Intracellular Flow Cytometry analysis of A431 (human epidermoid carcinoma) cells labeling PFKFB3 with purified ab181861 at 1/210 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Immunoprecipitation - Anti-PFKFB3 antibody [EPR12594] (ab181861)

Western blot analysis of PFKFB3 in HeLa cell lysate immunoprecipitated using ab181861 at 1/50 dilution (Lane 1). Lane 2: Negative control.

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



Immunoprecipitation - Anti-PFKFB3 antibody [EPR12594] (ab181861)

PFKFB3 was immunoprecipitated from 0.35 mg of Mouse skin tissue lysate with ab181861 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab181861 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: Mouse skin tissue lysate 10 µg (Input).

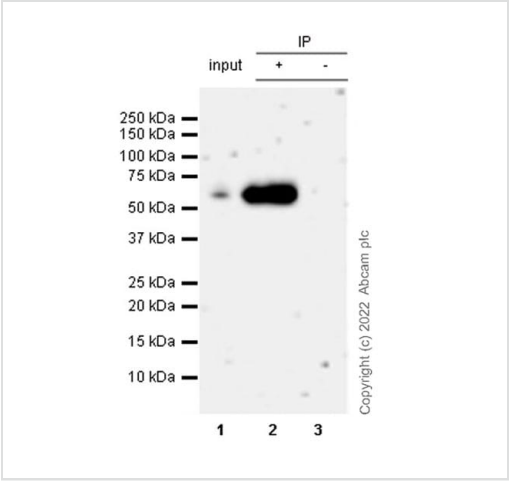
Lane 2: ab181861 IP in Mouse skin tissue lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab181861 in Mouse skin tissue lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 180 seconds.

This blot was developed using a high sensitivity ECL substrate.



Immunoprecipitation - Anti-PFKFB3 antibody [EPR12594] (ab181861)

PFKFB3 was immunoprecipitated from 0.35 mg of AR42J (rat pancreatic tumor epithelial cell) whole cell lysate with ab181861 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab181861 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

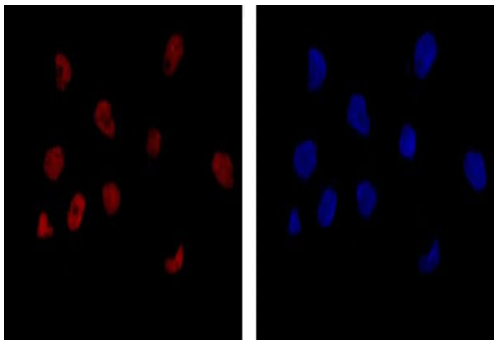
Lane 1: AR42J (rat pancreatic tumor epithelial cell) whole cell lysate 10 µg (Input).

Lane 2: ab181861 IP in AR42J whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab181861 in AR42J whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 180 seconds.



Immunocytochemistry/ Immunofluorescence - Anti-PFKFB3 antibody [EPR12594] (ab181861)

Immunofluorescent analysis of 4% paraformaldehyde-fixed A431 cells labeling PFKFB3 with ab181861 at 1/100 dilution, followed by Goat anti rabbit IgG (Alexa Fluor®555) at 1/200 dilution. Counter stained with Dapi (blue).

Anti-PFKFB3 antibody [EPR12594] (ab181861)

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.cn/abpromise** or contact our technical team.

Terms and conditions

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