abcam

Product datasheet

Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free ab232495

Recombinant RabMAb

7 Images

Overview

Product name	Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR10734(B)] to PFKM - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human, Pig
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: SH-SY5Y cells. WB: DDK tagged Recombinant Human PFKM protein.
General notes	ab232495 is the carrier-free version of **ab154804**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR10734(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232495 in the following tested applications.

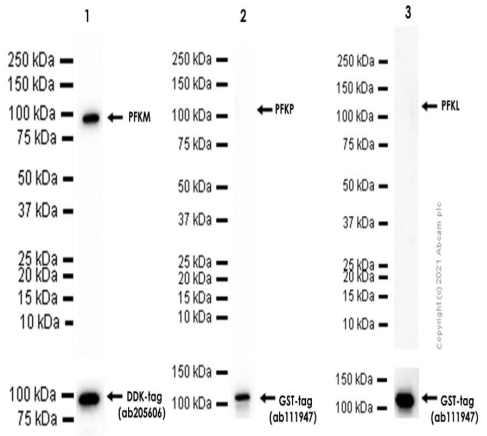
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 85 kDa.
ICC/IF		Use at an assay dependent concentration.

Target

Pathway	Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glycerone phosphate from D-glucose: step 3/4.
Involvement in disease	Defects in PFKM are the cause of glycogen storage disease type 7 (GSD7) [MIM:232800]; also known as Tarui disease. GSD7 is an autosomal recessive disorder characterized by exercise intolerance with associated nausea and vomiting. Short bursts of intense activity are particularly difficult. Severe muscle cramps and myoglobinuria develop after vigorous exercise. Most patients obtain a "second wind" when the onset of exercise is followed by a brief rest period. In time patients adjust their activity level and are well compensated.
Sequence similarities	Belongs to the phosphofructokinase family. Two domains subfamily.

Images



Western blot - Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

All lanes : Anti-PFKM antibody [EPR10734(B)] (**ab154804**) at 1/1000 dilution

Lane 1 : DDK tagged Recombinant Human PFKM protein (Full length, 85 KDa)
Lane 2 : Recombinant Human PFKP protein (**ab132823**)
Lane 3 : GST tagged Recombinant Human PFKL protein (Full length, 116 KDa)

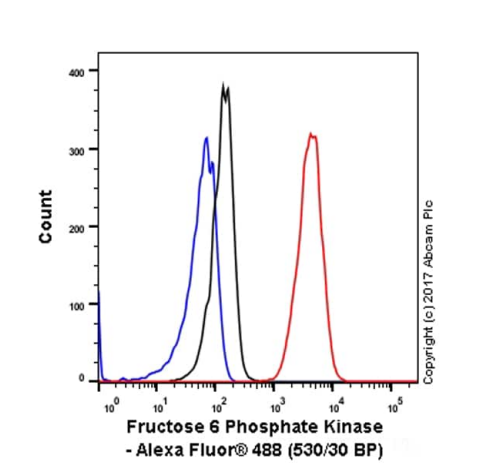
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 85 kDa
Additional bands at: 85 kDa. We are unsure as to the identity of these extra bands.

This data was developed using the same antibody clone in a different buffer formulation (**ab154804**).

Blocking/Dilution buffer: 5% NFDM/TBST.

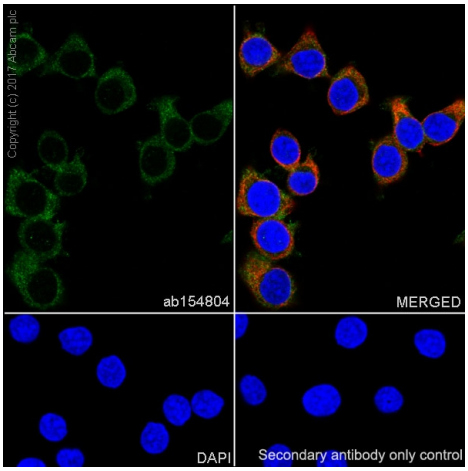
Exposure times: Lane 1: 3 seconds; Lane 2: 10 seconds; Lane 3: 180 seconds.



Flow Cytometry (Intracellular) - Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling PFKM with purified **ab154804** at 1/300 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

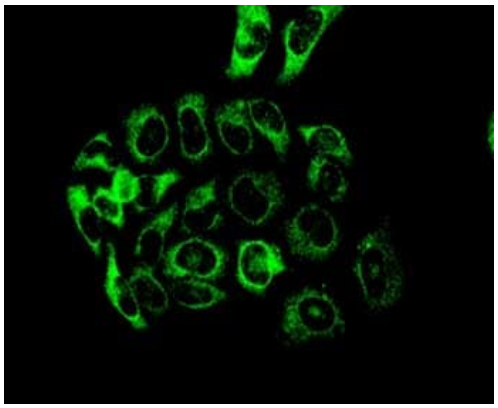
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab154804**).



Immunocytochemistry/ Immunofluorescence - Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

Immunocytochemistry/ Immunofluorescence analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling PFKM with Purified **ab154804** at 1:300 dilution (8.7µg/ml). Cells were fixed in 100% Methanol and cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

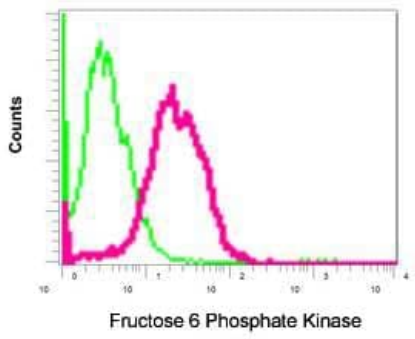
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab154804**).



Immunocytochemistry/ Immunofluorescence - Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

Immunofluorescence analysis of HeLa cells labeling PFKM with **ab154804** at 1/50 dilution.

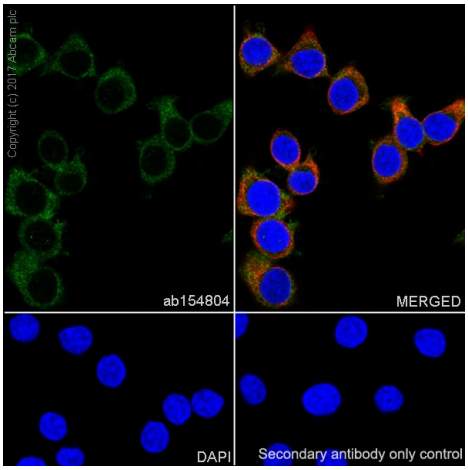
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab154804**).



Flow Cytometry (Intracellular) - Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

Intracellular flow cytometric analysis of permeabilized SHSY5Y cells labeling PFKM with **ab154804** at 1/100 dilution (red) or a rabbit IgG (green - negative control).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab154804**).



Immunocytochemistry/ Immunofluorescence - Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

Immunocytochemistry/ Immunofluorescence analysis of SH-SY5Y (human neuroblastoma epithelial cell) cells labeling PFKM with Purified **ab154804** at 1:300 dilution (8.7µg/ml). Cells were fixed in 100% Methanol and cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). **ab150077** Goat anti rabbit IgG(Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

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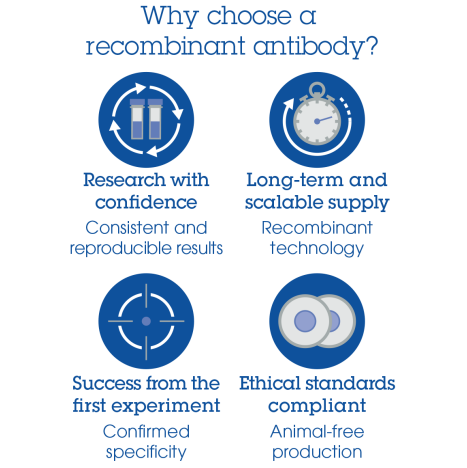

Anti-PFKM antibody [EPR10734(B)] - BSA and Azide free (ab232495)

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