Datasheet for ABIN1680620

anti-PFKFB3 antibody

6 Images

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Overview

Quantity:	100 µg
Target:	PFKFB3
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PFKFB3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human PFKFB3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PFKFB3
Alternative Name:	PFKFB3 (PFKFB3 Products)
Background:	The protein encoded by this gene belongs to a family of bifunctional proteins that are involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that

Target Details

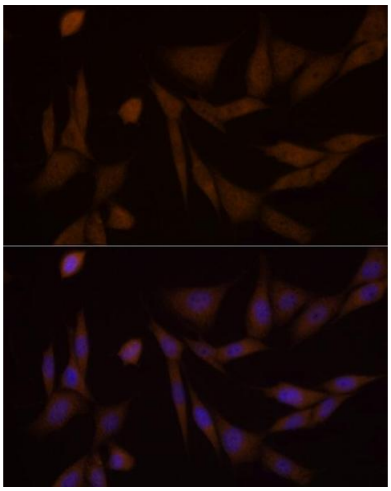
	controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate (F2,6BP), and a fructose-2,6-biphosphatase activity that catalyzes the degradation of F2,6BP. This protein is required for cell cycle progression and prevention of apoptosis. It functions as a regulator of cyclin-dependent kinase 1, linking glucose metabolism to cell proliferation and survival in tumor cells. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2016],IPFK2, PFK2, iPFK-2,AMPK Signaling Pathway,Carbohydrate metabolism,Endocrine & Metabolism,Warburg Effect,PFKFB3
Molecular Weight:	60 kDa
Gene ID:	5209
UniProt:	Q16875
Pathways:	AMPK Signaling, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

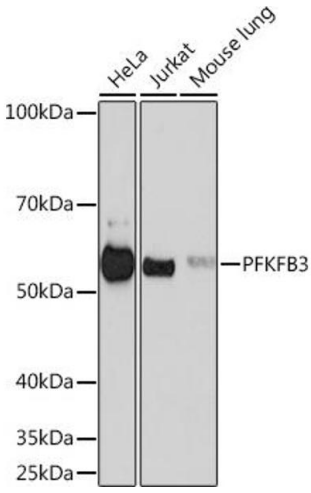
Handling

Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



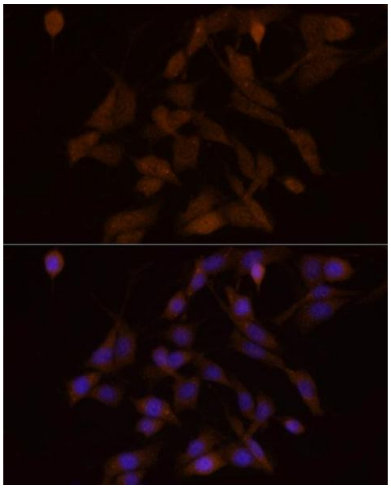
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 cells using PFKFB3 Rabbit mAb (ABIN1680620, ABIN3018306, ABIN3018307 and ABIN7101590) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PFKFB3 Rabbit mAb (ABIN1680620, ABIN3018306, ABIN3018307 and ABIN7101590) at 1:500 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 60s.



Immunofluorescence

Image 3. Immunofluorescence analysis of PC-12 cells using PFKFB3 Rabbit mAb (ABIN1680620, ABIN3018306, ABIN3018307 and ABIN7101590) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the product details page for more images. Overall 6 images are available for ABIN1680620.