Datasheet for ABIN744728

anti-PFKFB3 antibody (pSer467)

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Overview

Quantity:	100 µL
Target:	PFKFB3
Binding Specificity:	pSer467
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PFKFB3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human PFK2 around the phosphorylation site of Ser467
Isotype:	IgG
Specificity:	This phosphorylated site is homologous to that of Ser467 in Mouse and Ser496 in Rat.
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PFKFB3
Alternative Name:	PFK2 (PFKFB3 Products)
Background:	Synonyms: PFK2, IPFK2, 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3, 6PF-2-K/Fru-2,6-P2ase 3, PFK/FBPase 3, 6PF-2-K/Fru-2,6-P2ase brain/placenta-type isozyme, Renal carcinoma antigen NY-REN-56, iPFK-2, PFKFB3 Background: 6 Phosphofructo 2 Kinase plays a role in the synthesis and degradation of fructose 2,6-bisphosphate. Fructose-2,6-bisphosphate acts as an allosteric regulator of 6-phosphofructo-1-kinase (PFK1), which catalyses a key step in the glycoytic pathway. Glycolytic flux is key to tumour growth, and small molecule inhibition of 6 Phosphofructo 2 Kinase suppresses both glycolytic flux and tumour growth. Several lines of evidence suggest that 6 Phosphofructo 2 Kinase is also involved in obesity.
Gene ID:	5209
UniProt:	Q16875
Pathways:	AMPK Signaling, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

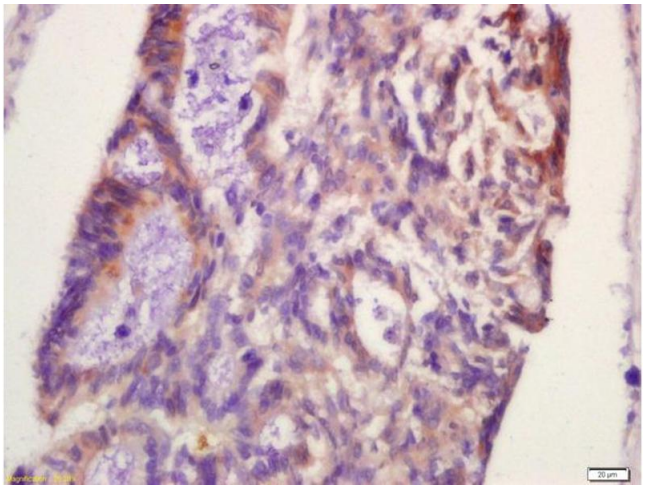
Handling

	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Fu, Shi, Westaway, Jhamandas: "Bioenergetic mechanisms in astrocytes may contribute to amyloid plaque deposition and toxicity." in: **The Journal of biological chemistry**, Vol. 290, Issue 20, pp. 12504-13, (2015) (PubMed).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human rectal carcinoma labeled with Anti-Phospho-PFK2(Ser467) Polyclonal Antibody, Unconjugated (ABIN744728) at 1:200 followed by conjugation to the secondary antibody and DAB staining