Datasheet for ABIN7194084

PFKFB3 Protein (GST tag,His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	PFKFB3
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PFKFB3 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human PFK2/PFKFB3 Protein (His & GST Tag)
Sequence:	Met 1-His 520
Characteristics:	A DNA sequence encoding the human PFKFB3 isoform 1 (Q16875-1) (Met 1-His 520) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PFKFB3
Alternative Name:	PFK2/PFKFB3 (PFKFB3 Products)
Background:	Background: Fructose-2,6-biphosphatase 3, also known as 6-phosphofructo-2-kinase or PFK2 or PFKFB3, is a potent activator of phosphofructokinase, which is a rate-limiting enzyme of glycolysis. Highly phosphorylated PFKFB3 protein was found in human tumor cells, vascular

Target Details

	endothelial cells, and smooth muscle cells. Fructose 2,6-bisphosphate (Fru-2,6-BP) is an allosteric activator of 6-phosphofructo-1-kinase (PFK-1), a rate-limiting enzyme and essential control point in glycolysis. The concentration of PFK2 depends on the activity of the bifunctional enzyme, 6-phosphofructo-2-kinase / fructose-2,6-bisphosphatase (PFK-2 / FBPase). PFK2 controls the glycolytic flux via the allosteric activator fructose 2,6-bisphosphate. Because of its proto-oncogenic character, the PFK-2/FBPase-2 of the PFKFB3 gene is assumed to play a critical role in tumorigenesis. The hypoxia-inducible form of 6-phosphofructo-2-kinase / fructose-2,6-bisphosphatase (PFKFB3) plays a crucial role in the progression of cancerous cells by enabling their glycolytic pathways even under severe hypoxic conditions. Synonym: IPFK2,PFK2
Molecular Weight:	87.4 kDa
Pathways:	AMPK Signaling, Regulation of Carbohydrate Metabolic Process

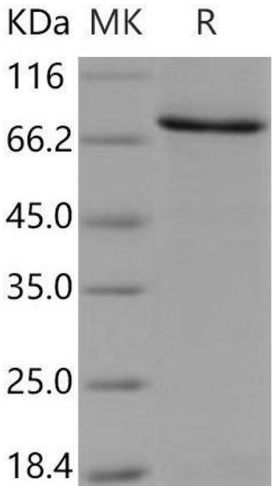
Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.0, 10 % glycerol, 0.3 mM DTT
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Images



Western Blotting

Image 1.