

PFK-2 car (phospho Ser483) Polyclonal Antibody

Catalog No :	YP0711
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PFK-2 car
Fields :	>>Fructose and mannose metabolism;>>Metabolic pathways;>>AMPK signaling pathway;>>Thyroid hormone signaling pathway
Gene Name :	PFKFB2
Protein Name :	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2
Human Gene Id :	5208
Human Swiss Prot No :	O60825
Mouse Gene Id :	18640
Mouse Swiss Prot	P70265
Rat Gene Id :	24640
Rat Swiss Prot No :	Q9JJH5
Immunogen :	The antiserum was produced against synthesized peptide derived from human PFKFB2 around the phosphorylation site of Ser483. AA range:451-500
Specificity :	Phospho-PFK-2 car (S483) Polyclonal Antibody detects endogenous levels of PFK-2 car protein only when phosphorylated at S483.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000 IF 1:50-200



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Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-
	chromatography using epitope-specific immunogen.
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Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Dands	FOLD
Observed Band :	JOKD
Coll Pathway	Fructose and manpase metabolism:
Cell Falliway.	
Background :	The protein encoded by this gene is involved in both the synthesis and
Daonground	degradation of fructose-2.6-bisphosphate, a regulatory molecule that controls
	degradation of fructose-2,0-bisphosphate, a regulatory molecule that controls
	giycolysis in eukaryotes. The encoded protein has a 6-phosphotructo-2-kinase
	activity that catalyzes the synthesis of fructose-2,6-bisphosphate, and a
	fructose-2.6-biphosphatase activity that catalyzes the degradation of
	fructose-2 6-bisphosphate. This protein regulates fructose-2 6-bisphosphate
	liuciose-2,0-bisphosphale. This protein regulates indetose-2,0-bisphosphale
	levels in the neart, while a related enzyme encoded by a different gene regulates
	fructose-2,6-bisphosphate levels in the liver and muscle. This enzyme functions
	as a homodimer. Two transcript variants encoding two different isoforms have
	been found for this gene [provided by RefSeg. Jul 2008]
Function :	catalytic activity:ATP + D-fructose 6-phosphate = ADP + beta-D-fructose
	2.6-bisphosphate, catalytic activity: Beta-D-fructose 2.6-bisphosphate \pm H(2)O =
	2,0-bispilospilate., catalytic activity. Deta-D-11 actose 2,0-bispilospilate + $11(2)0 =$
	D-iruciose 6-priosphate + priosphate.,enzyme regulation.Priosphorylation results
	in the activation of the kinase activity.,function:Synthesis and degradation of
	fructose 2,6-bisphosphate., similarity: In the C-terminal section; belongs to the
	phosphoglycerate mutase familysubunit:Homodimertissue specificity:Heart
Subcellular	cytosol,
Location :	
Location :	
Expression :	Heart.
-	
_	
lag:	orthogonal
Contra	11050
Sort :	11002
No2 :	130645
NUZ .	100040
No4 :	1

Products Images



Western Blot analysis of various cells using Phospho-PFK-2 car (S483) Polyclonal Antibody diluted at 1:1000





Western Blot analysis of Hela cells using Phospho-PFK-2 car (S483) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PFKFB2 (Phospho-Ser483) Antibody





Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using PFKFB2 (Phospho-Ser483) Antibody. The picture on the right is blocked with the phospho peptide.