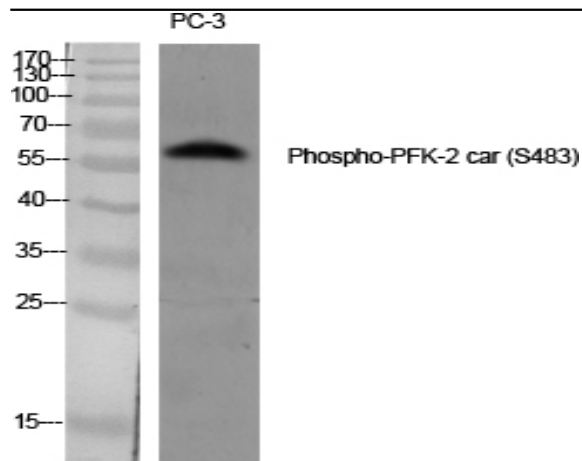


PFK-2 car (phospho Ser483) Polyclonal Antibody

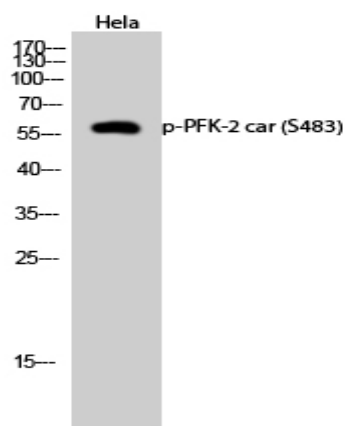
Catalog No :	YP0711
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PFK-2 car
Fields :	>>Fructose and mannose metabolism;>>Metabolic pathways;>>AMPK signaling pathway;>>Thyroid hormone signaling pathway
Gene Name :	PFKFB2
Protein Name :	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2
Human Gene Id :	5208
Human Swiss Prot No :	O60825
Mouse Gene Id :	18640
Mouse Swiss Prot No :	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

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	58kD
Cell Pathway :	Fructose and mannose metabolism;
Background :	<p>The protein encoded by this gene is involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-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 levels in the heart, 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 RefSeq, Jul 2008],</p>
Function :	<p>catalytic activity:ATP + D-fructose 6-phosphate = ADP + beta-D-fructose 2,6-bisphosphate.,catalytic activity:Beta-D-fructose 2,6-bisphosphate + H(2)O = D-fructose 6-phosphate + phosphate.,enzyme regulation:Phosphorylation 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 family.,subunit:Homodimer.,tissue specificity:Heart.,</p>
Subcellular Location :	cytosol,
Expression :	Heart.

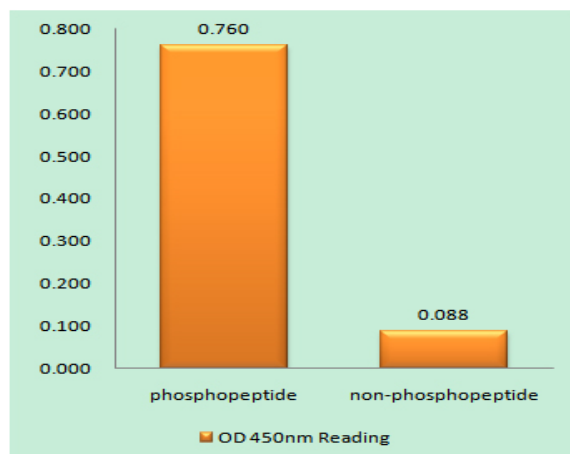
Products Images



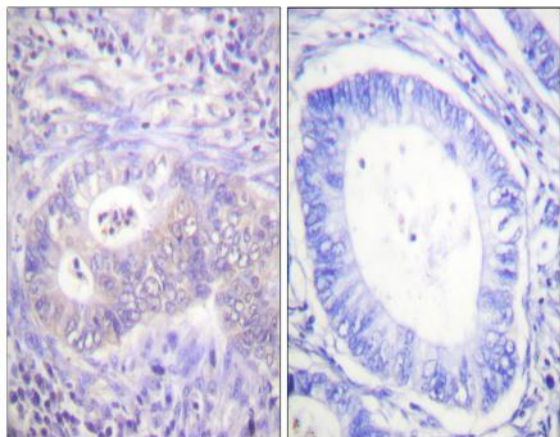
Western Blot analysis of various cells using Phospho-PFK-2 car (S483) Polyclonal Antibody diluted at 1:1000



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.