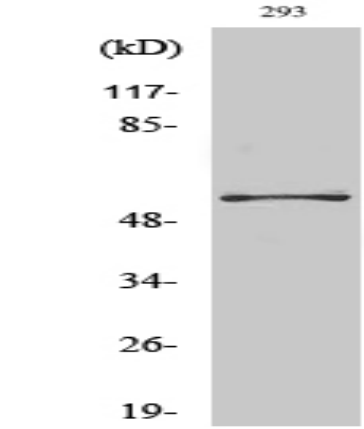
Best Tools for immunology Research

PFK-2 car Polyclonal Antibody

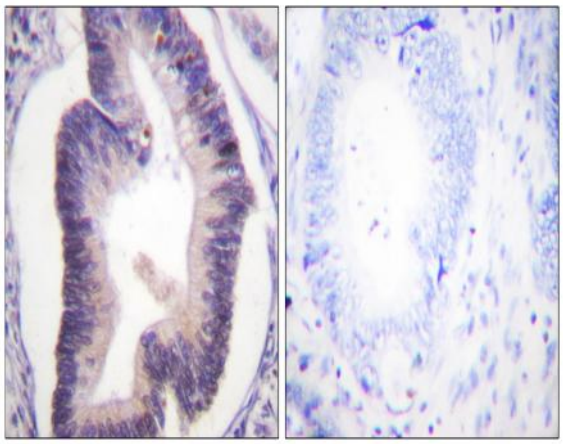
Catalog No :	YT3681
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PFK-2 car
Fields :	>>Fructose and mannose metabolism;>>Metabolic pathways;>>AMPK signaling pathway;>>Thyroid hormone signaling pathway
Gene Name :	PFKFB2
Protein Name :	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 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. AA range:451-500
Specificity :	PFK-2 car Polyclonal Antibody detects endogenous levels of PFK-2 car protein.
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: 1:5000.. 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 :	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],
Function :	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.,
Subcellular Location :	cytosol,
Expression :	Heart.

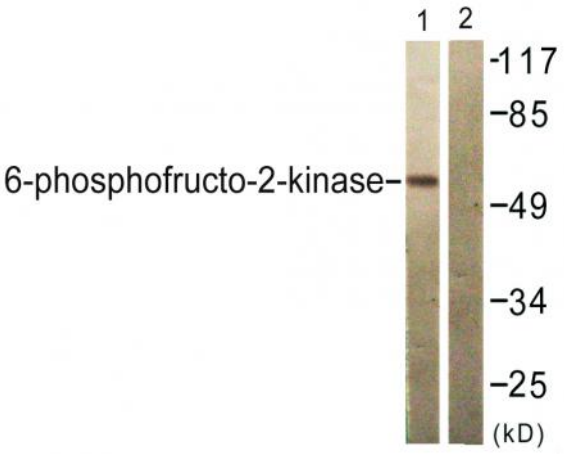
Products Images



Western Blot analysis of various cells using PFK-2 car Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using PFKFB2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, treated with Heat shock, using PFKFB2 Antibody. The lane on the right is blocked with the synthesized peptide.