Product Name: **PFK-2 car (phospho Ser483) Rabbit Polyclonal Antibody**
Catalog #: **APRab05241**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	58kDa

Antigen Information

Gene Name	PFKFB2
Alternative Names	PFKFB2; 6-phosphofructo-2-kinase/fructose-2; 6-bisphosphatase 2; 6PF-2-K/Fru-2,6-P2ase 2; PFK/FBPase 2; 6PF-2-K/Fru-2,6-P2ase heart-type isozyme
Gene ID	5208.0
SwissProt ID	O60825
Immunogen	The antiserum was produced against synthesized peptide derived from human PFKFB2 around the phosphorylation site of Ser483. AA range:451-500

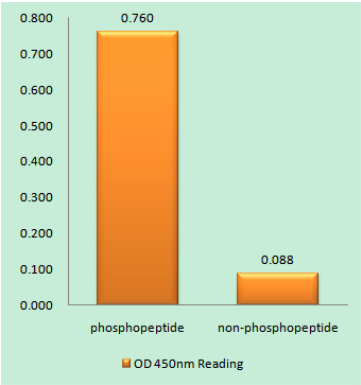
Background

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],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.,

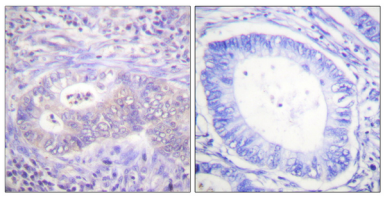
Research Area

Fructose and mannose metabolism;

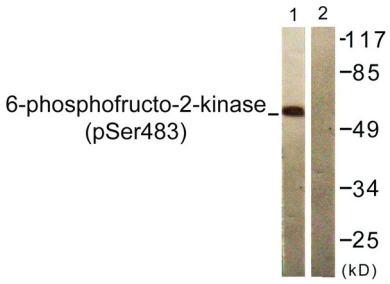
Image Data



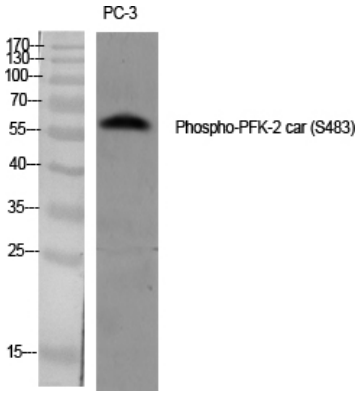
Enzyme-Linked Immunosorbent Assay （Phospho-ELISA） for Immunogen Phosphopeptide （Phospho-left） and Non-Phosphopeptide （Phospho-right）, using PFKFB2 （Phospho-Ser483） Antibody



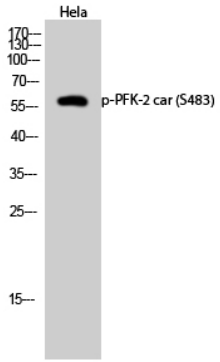
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using PFKFB2 （Phospho-Ser483） Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with Heat shock, using PFKFB2 （Phospho-Ser483） Antibody. The lane on the right is blocked with the phospho peptide.



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