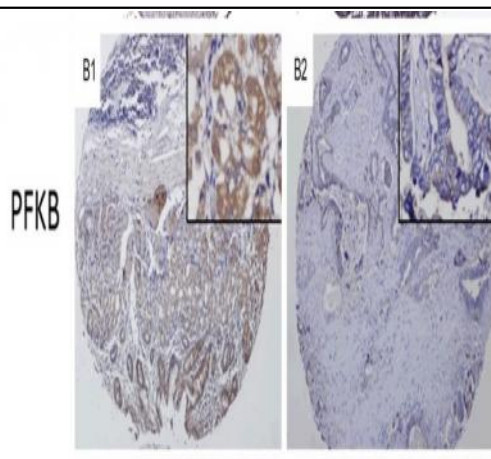


PFK-B Polyclonal Antibody

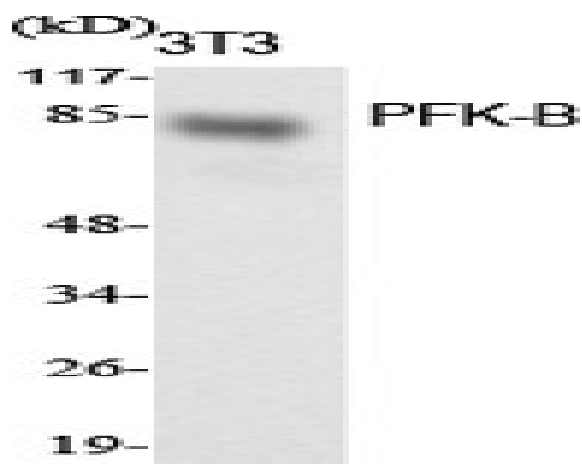
Catalog No :	YT3685
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PFK-B
Fields :	>>Glycolysis / Gluconeogenesis;>>Pentose phosphate pathway;>>Fructose and mannose metabolism;>>Galactose metabolism;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids;>>RNA degradation;>>HIF-1 signaling pathway;>>AMPK signaling pathway;>>Thyroid hormone signaling pathway;>>Glucagon signaling pathway;>>Central carbon metabolism in cancer
Gene Name :	PFKL
Protein Name :	6-phosphofructokinase liver type
Human Gene Id :	5211
Human Swiss Prot No :	P17858
Mouse Gene Id :	18641
Mouse Swiss Prot No :	P12382
Rat Gene Id :	25741
Rat Swiss Prot No :	P30835
Immunogen :	The antiserum was produced against synthesized peptide derived from human K6PL. AA range:691-740
Specificity :	PFK-B Polyclonal Antibody detects endogenous levels of PFK-B 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: 1:20000.. 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 :	85kD
Cell Pathway :	Glycolysis / Gluconeogenesis;Pentose phosphate pathway;Fructose and mannose metabolism;Galactose metabolism;
Background :	This gene encodes the liver (L) subunit of an enzyme that catalyzes the conversion of D-fructose 6-phosphate to D-fructose 1,6-bisphosphate, which is a key step in glucose metabolism (glycolysis). This enzyme is a tetramer that may be composed of different subunits encoded by distinct genes in different tissues. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014],
Function :	catalytic activity:ATP + D-fructose 6-phosphate = ADP + D-fructose 1,6-bisphosphate.,cofactor:Magnesium.,enzyme regulation:Allosteric enzyme activated by ADP, AMP, or fructose bisphosphate and inhibited by ATP or citrate.,miscellaneous:In human PFK exists as a system of 3 types of subunits, PFKM (muscle), PFKL (liver) and PFKP (platelet) isoenzymes.,pathway:Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glyceraldehyde phosphate from D-glucose: step 3/4.,similarity:Belongs to the phosphofructokinase family. Two domains subfamily.,subunit:Tetramer. Muscle is M4, liver is L4, and red cell is M3L, M2L2, or ML3.,
Subcellular Location :	Cytoplasm .
Expression :	Brain,Cervix,Colon,Human amygdala,Human retina,Kidney,Liver,Lung,Muscle,Pla

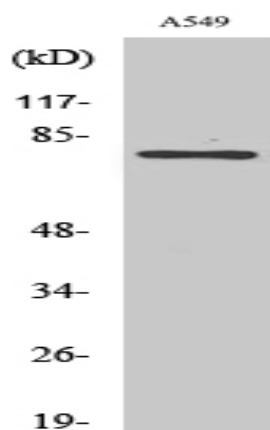
Products Images



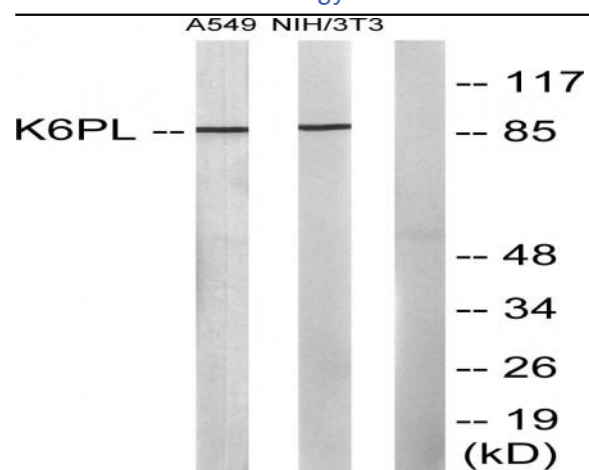
Gao, Yunshu, et al. "Overexpression of metabolic markers HK1 and PKM2 contributes to lymphatic metastasis and adverse prognosis in Chinese gastric cancer." *International journal of clinical and experimental pathology* 8.8 (2015): 9264.



Western Blot analysis of various cells using PFK-B Polyclonal Antibody diluted at 1:1000



Western Blot analysis of NIH-3T3 cells using PFK-B Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from A549 and NIH/3T3 cells, using K6PL Antibody. The lane on the right is blocked with the synthesized peptide.