



PFK-2 liv Polyclonal Antibody

Catalog No	YP-Ab-14904
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PFKFB1
Protein Name	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1
Immunogen	The antiserum was produced against synthesized peptide derived from human PFKFB1. AA range:406-455
Specificity	PFK-2 liv Polyclonal Antibody detects endogenous levels of PFK-2 liv protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PFKFB1; F6PK; PFRX; 6-phosphofructo-2-kinase/fructose-2; 6-bisphosphatase 1; 6PF-2-K/Fru-2,6-P2ase 1; PFK/FBPase 1; 6PF-2-K/Fru-2,6-P2ase liver isozyme
Observed Band	58kD
Cell Pathway	cytosol,6-phosphofructo-2-kinase/fructose-2,6-biphosphatase complex,
Tissue Specificity	Liver.
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 inhibition 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:Liver.,
Background	This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating



fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012],

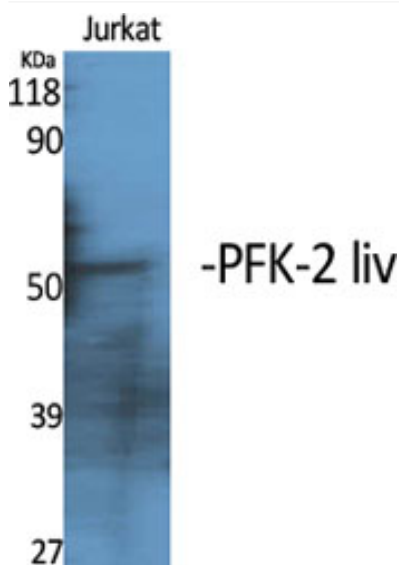
matters needing attention

Avoid repeated freezing and thawing!

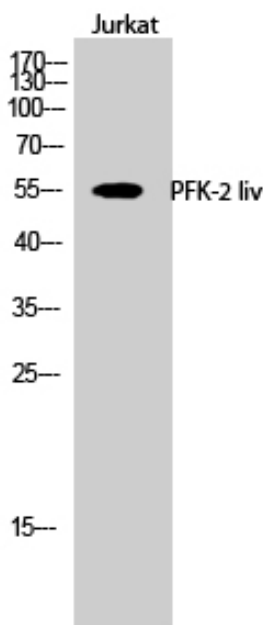
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

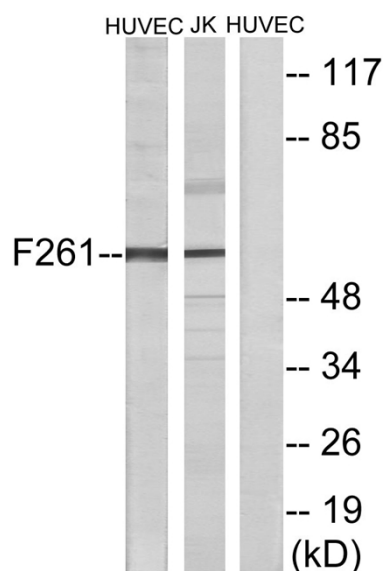
Products Images



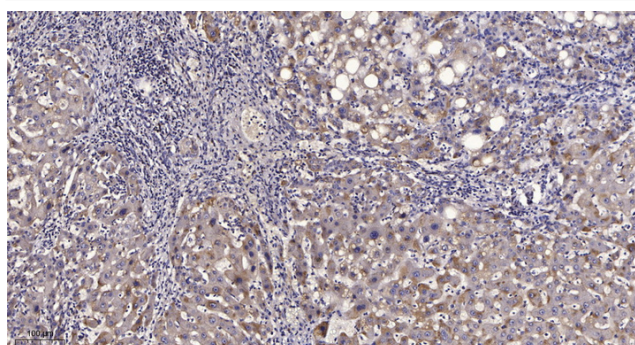
Western Blot analysis of various cells using PFK-2 liv Polyclonal Antibody



Western Blot analysis of Jurkat cells using PFK-2 liv Polyclonal Antibody



Western blot analysis of lysates from HUVEC cells and Jurkat cells, using PFKFB1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).