



PFK-2 liv/tes Monoclonal Antibody

Catalog No	YP-mAb-14905
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PFKFB1/PFKFB4
Immunogen	The antiserum was produced against synthesized peptide derived from human PFKFB1/4. AA range:331-380
Specificity	PFK-2 liv/tes Monoclonal Antibody detects endogenous levels of PFK-2 liv/tes protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PFK-2 liv/tes;PFKFB1/PFKFB4;6-phosphofructo-2-kinase/fructose-2;6-biphosphatase 1/4;PFKFB1;F6PK;PFRX;6-bisphosphatase 1;6PF-2-K/Fru-2;6-P2ase 1;PFK/FBPase 1;6-P2ase liver isozyme;PFKFB4;6-bisphosphatase 4;6-P2ase 4
Observed Band	54kD
Calculated Molecular Weight	54kD
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],

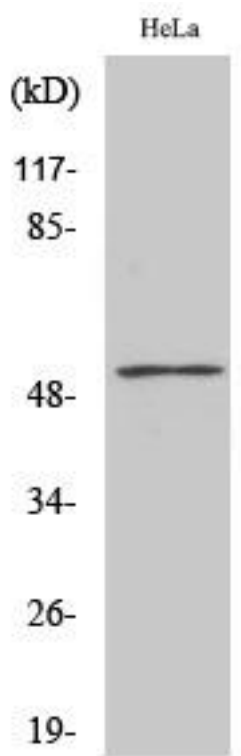
matters needing attention

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/tes Monoclonal Antibody