



PFK-2 liv/tes Monoclonal Antibody

Catalog No	BYmab-14905
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PFKFB1/PFKFB4
Protein Name	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1/4
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 1:500-2000
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; PFKFB4; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4; 6PF-2-K/Fru-2,6-P2ase 4;
Observed Band	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 familysubunit:Homodimertissue specificity:Liver.

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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],
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.

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