

19645

PFKFB3 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #Q16875	Entrez-Gene Id: 5209
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PFKFB3 Antibody recognizes endogenous levels of total PFKFB3 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly452 of human PFKFB3 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The bifunctional 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase (PFK/FBPase or PFKFB) catalyzes the synthesis and degradation of fructose 2,6-bisphosphate and regulates its steady-state level (1,2). Fructose 2,6-bisphosphate activates phosphofructokinase, a rate-limiting enzyme in glycolysis, by allosteric regulation (1,2). Four different PFKFB isoforms (PFKFB1, PFKFB2, PFKFB3, and PFKFB4) have been identified (1,2). One of them, PFKFB3/iPFK-2, was shown to be inducible by hypoxia leading to increased glycolysis under hypoxic conditions (2). Research studies have shown that PFKFB3/iPFK-2 is also highly expressed in some types of human cancer (3).				
Background References		1. Atsumi, T. et al. (2005) <i>Diabetes</i> 54, 3349-57. 2. Kim, S.G. et al. (2006) <i>J Biol Chem</i> 281, 2939-44. 3. Atsumi, T. et al. (2002) <i>Cancer Res</i> 62, 5881-7.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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