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PFKFB2 (D5I5F) Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #O60825	Entrez-Gene Id: 5208		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	iistry)		Dilution 1:1000 1:50 1:1600		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	pecificity/Sensitivity PFKFB2 (D5I5F) Rabbit mAb recognizes endogenous levels of total PFKFB2 protein.							
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val82 within the 6-phosphofructo-2-kinase domain of human PFKFB2 protein.						
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). Research studies indicate that amino acids activate PFKFB2 through Akt-dependent phosphorylation at Ser483 on PFKFB2 (3). In addition, androgen increases the expression of PFKFB2 in prostate cancer cells (4).						
Background Re	eferences	1. Atsumi, T. et al. (200 2. Kim, S.G. et al. (2006 3. Novellasdemunt, L. 4. Moon, J.S. et al. (201	5) <i>J Biol Chem</i> 281, 2 et al. (2013) <i>J Biol C</i>	2939-44. <i>Them</i> 288, 10640-51.				
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human Mk: Monkey						
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