#13045 Store at -20C

PFKFB2 (D7G5R) Rabbit mAb



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Applications: WB, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #O60825	Entrez-Gene ld: 5208	
Product Usage Information	Ар	plication				Dilution	
	We	estern Blotting				1:1000	
	Imr	munoprecipitation				1:50	
	Imr	munofluorescence (Immunocytochen	nistry)		1:800	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensitiv	vity PFK	PFKFB2 (D7G5R) Rabbit mAb recognizes endogenous levels of total PFKFB2 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro454 within the fructose-2,6-biphosphatase region of human PFKFB2 protein.					
Background	cata (1,2 allos bee pho	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 Refere	2. K 3. N	 Atsumi, T. et al. (2005) Diabetes 54, 3349-57. Kim, S.G. et al. (2006) J Biol Chem 281, 2939-44. Novellasdemunt, L. et al. (2013) J Biol Chem 288, 10640-51. Moon, J.S. et al. (2011) Biochem J 433, 225-33. 					

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

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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