

Store at  
-20C  
#13064**Phospho-PFKFB2 (Ser483) (D4R1W) Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	55	Rabbit IgG	#O60825	5208

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	Phospho-PFKFB2 (Ser483) (D4R1W) Rabbit mAb recognizes endogenous levels of PFKFB2 protein only when phosphorylated at Ser483.	
<b>Species predicted to react based on 100% sequence homology</b>	Mouse, Rat	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser483 of human PFKFB2 protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Atsumi, T. et al. (2005) <i>Diabetes</i> 54, 3349-57.</li> <li>2. Kim, S.G. et al. (2006) <i>J Biol Chem</i> 281, 2939-44.</li> <li>3. Novellasdemunt, L. et al. (2013) <i>J Biol Chem</i> 288, 10640-51.</li> <li>4. Moon, J.S. et al. (2011) <i>Biochem J</i> 433, 225-33.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>W:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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