Store at -20C

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Cell Signaling PFKP (D4B2) Rabbit mAb H. 877-616-CELL (2355) orders@cellsignal.com Orders: Support: 877-678-TECH (8324) info@cellsignal.com cellsignal.com Web:

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

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q01813	Entrez-Gene Id: 5214
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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/Sensitivity		PFKP (D4B2) Rabbit mAb recognizes endogenous levels of total PFKP protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PFKP protein.				
Background		Phosphofructokinase (PFK) catalyzes the phosphorylation of fructose-6-phosphate in glycolysis (1). There are three isozymes: muscle-type, liver-type, and platelet-type (2,3). Platelet-type phosphofructokinase (PFKP) is expressed in various cell types (4,5). Research studies have shown that genetic variations in PFKP are associated with individuals born small for gestational age that are prone to obesity and diabetes later in adulthood (6).				
Background References		1. Mediavilla, D. et al. (2008) <i>J Biochem</i> 144, 235-44. 2. Eto, K. et al. (1994) <i>Biochem Biophys Res Commun</i> 198, 990-8. 3. Hannemann, A. et al. (2005) <i>Gene</i> 345, 237-47. 4. Morrison, N. et al. (1992) <i>Hum Genet</i> 89, 105-6. 5. Vora, S. (1983) <i>Isozymes Curr Top Biol Med Res</i> 11, 3-23. 6. Morgan, A.R. et al. (2010) <i>BMC Med Genet</i> 11, 125.				
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed 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 IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human Mk: Monkey	,			
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