

PGAM1 (D3J9T) 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 M R Hm Mk	Endogenous	28	Rabbit IgG	#P18669	5223
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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.					
Specificity/Sensitivity	PGAM1 (D3J9T) Rabbit mAb recognizes endogenous levels of total PGAM1 protein. This antibody may cross react with overexpressed PGAM2 protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PGAM1 protein.					
Background	Phosphoglycerate mutase (PGAM1) catalyzes the conversion of 3-phosphoglycerate to 2-phosphoglycerate during glycolysis (1-5). Research studies have shown increased PGAM1 expression in cancer (1-4) and mental disease (5). Specifically, PGAM1 was shown to be phosphorylated at His11 by phosphoenolpyruvate (PEP) in PKM2-expressing cells, suggesting a possible regulatory role for PGAM1 in actively proliferating cells via an alternative glycolytic pathway (1).					
Background References	1. Vander Heiden, M.G. et al. (2010) <i>Science</i> 329, 1492-9. 2. Jacobowitz, D.M. et al. (2008) <i>Microvasc Res</i> 76, 89-93. 3. Ren, F. et al. (2010) <i>Mol Cancer</i> 9, 81. 4. Evans, M.J. et al. (2005) <i>Nat Biotechnol</i> 23, 1303-7. 5. Martins-de-Souza, D. et al. (2009) <i>BMC Psychiatry</i> 9, 17.					

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 Hm: Hamster Mk: Monkey
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