

## **PGAM1 Antibody**



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

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	Source/Isotype: Rabbit	UniProt ID: #P18669	Entrez-Gene Id: 5223
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PGAM1 Antibody recognizes endogenous levels of total PGAM1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro128 of human PGAM1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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.C 2. Jacobowitz, D.M. et 3. Ren, F. et al. (2010) 4. Evans, M.J. et al. (20 5. Martins-de-Souza, l	al. (2008) <i>Microvaso</i> <i>Mol Cancer</i> 9, 81. 105) <i>Nat Biotechnol</i>	<i>c Res</i> 76, 89-93. 23, 1303-7.		
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 Mk: Monkey				
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