

PGAM1 (D3J9T) Rabbit mAb

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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) *Science* 329, 1492-9.
2. Jacobowitz, D.M. et al. (2008) *Microvasc Res* 76, 89-93.
3. Ren, F. et al. (2010) *Mol Cancer* 9, 81.
4. Evans, M.J. et al. (2005) *Nat Biotechnol* 23, 1303-7.
5. Martins-de-Souza, D. et al. (2009) *BMC Psychiatry* 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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