

PGAM1 (D3J9T) Rabbit mAb

✓ 100 µl
(10 western blots)

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rev. 11/26/14

For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #5223
UniProt ID #P18669

Applications W Endogenous	Species Cross-Reactivity* H, M, R, Hm, Mk	Molecular Wt. 28 kDa	Isotype Rabbit IgG**
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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).

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 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.

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.

*Species cross-reactivity is determined by western blot.

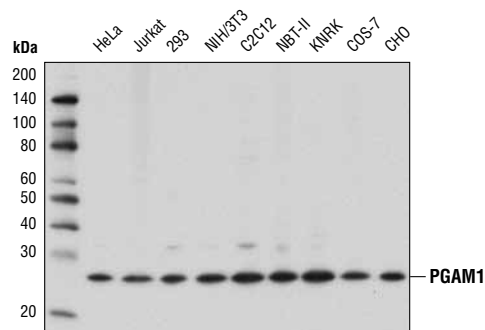
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.



Western blot analysis of extracts from various cell lines using PGAM1 (D3J9T) Rabbit mAb.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.

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