

Product datasheet for **AM50618PU-N**

PGAM1 Mouse Monoclonal Antibody [Clone ID: AT1G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT1G4
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human PGAM1 (1-254aa) purified from E. coli.
Formulation:	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol. State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phosphoglycerate mutase 1
Database Link:	Entrez Gene 5223 Human P18669



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Background:

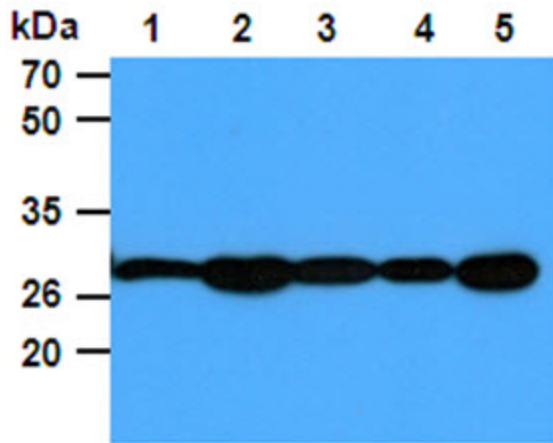
PGAM1 belongs to the phosphoglycerate mutase family. This protein is important components of glucose and 2,3-BPGA (2,3-bisphosphoglycerate) metabolism and catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). Mutations in this protein cause muscle phosphoglycerate mutase efficiency, also known as glycogen storage disease X.

Synonyms:

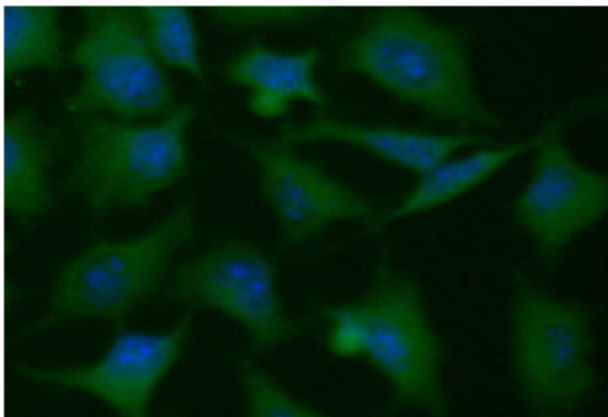
PGAM 1, Phosphoglycerate mutase 1, PGAMA, PGAM-B

Protein Pathways:

Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:


The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CBR1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : 293T cell lysate
Lane 2. : Jurkat cell lysate
Lane 3. : Raji cell lysate
Lane 4. : A431 cell lysate
Lane 5. : HeLa cell lysate



ICC/IF analysis of PGAM1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PGAM1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).