

Monoclonal anti-human PGAM1 antibody (clone AT1G4)

Mouse IgG_{2a}, λ

Cat. No. IBATGA0352

Immunogen: Recombinant human PGAM1 (1-254aa) purified from *E. coli*

NCBI Accession No.: NP_002620

Isotype: Mouse IgG_{2a} heavy chain and λ light chain

Clone: Anti-human PGAM1 mAb, clone AT1G4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PGAM1 protein

Description: 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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol..

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Usage: 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.

Application: ELISA, WB, ICC/IF, Flow cyt

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

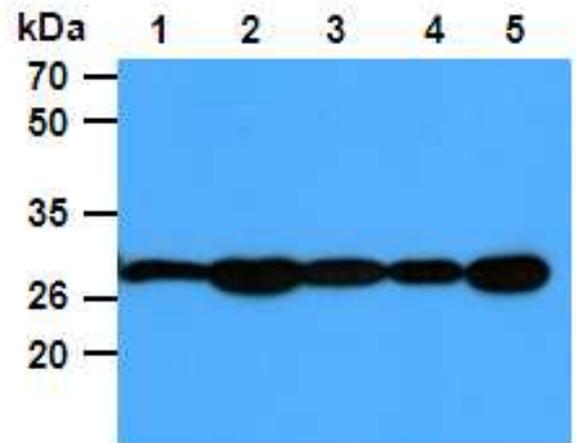
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Product information

Western blot analysis

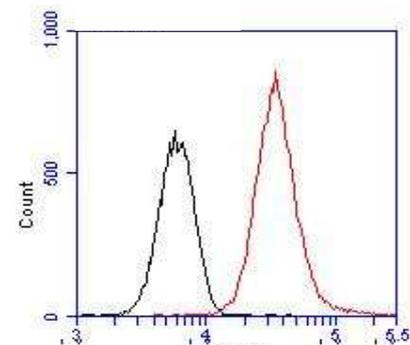
The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PGAM1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- 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



Flow cytometry

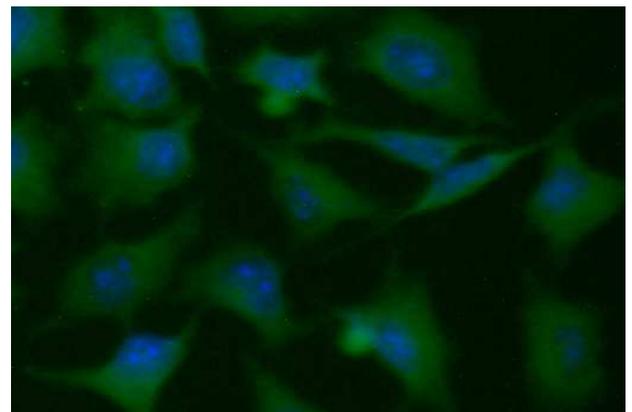
Flow cytometry analysis of PGAM1 in HeLa cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-PGAM1

ICC/IF analysis

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).



- General references:**
- Vander-Heiden MG., *et al.* (2010) *Science*. **329**: 1492-1499.
 - Jacobowitz DM., *et al.* (2008) *Microvasc Res*. **76**: 89-93.

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