

Rabbit PGAM1 Polyclonal Antibody | anti-PGAM1 antibody

Anti-PGAM1 Antibody Picoband

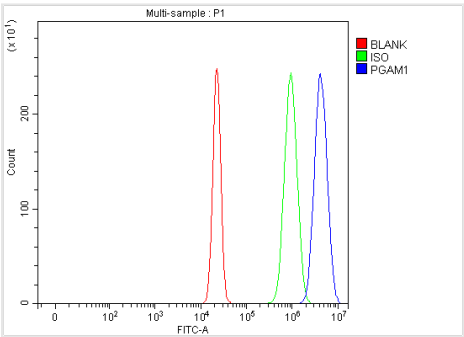
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127232	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PGAM1; Polyclonal Antibody; Anti-PGAM1 Antibody Picoband; Integrin alpha-L; CD11 antigen-like family member A; Leukocyte adhesion glycoprotein LFA-1 alpha chain; LFA-1A; Leukocyte function-associated molecule 1 alpha chain; CD11a; ITGAL; CD11A; anti-PGAM1 antibody

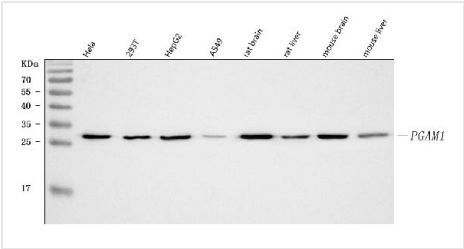
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Leukocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PGAM1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PGAM1 recombinant protein (Position: Q43-K254).
Subcellular Localization	Membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



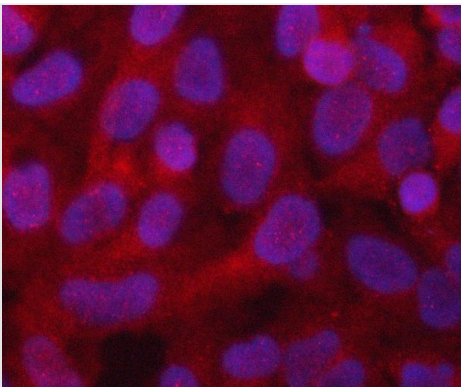
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U2OS cells using anti-PGAM1 antibody (AAA127232).Overlay histogram showing U2OS cells stained with AAA127232 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PGAM1 Antibody (AAA127232, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of PGAM1 using anti-PGAM1 antibody (AAA127232).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human A549 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat liver tissue lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PGAM1 antigen affinity purified polyclonal antibody (#AAA127232) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PGAM1 at approximately 29 kDa. The expected band size for PGAM1 is at 29 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of PGAM1 using anti-PGAM1 antibody (AAA127232).PGAM1 was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PGAM1 Antibody (AAA127232) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-PGAM1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PGAM1 antibody	Primary Antibodies; Cell Adhesion; Cell Type Markers; Cytoskeleton/ECM; Hematopoietic Progenitors; Immunology; Integrins; Myeloid; Signal Transduction; Stem Cells
References	1. Charles, D. J., Pretsch, W. Linear dose-response relationship of erythrocyte enzyme-activity mutations in offspring of ethylnitrosourea-treated mice. Mutat. Res. 176: 81-91, 1987. 2. Chen, S.-H., Anderson, J., Giblett, E. R., Lewis, M. Phosphoglyceric acid mutase: rare genetic variants and tissue distribution. Am. J. Hum. Genet. 26: 73-77, 1974.3. Chen, S.-H., Anderson, J. E., Giblett, E. R. Human red cell 2,3-diphosphogl ycerate mutase and monophosphoglycerate mutase: genetic evidence for two separate loci. Am. J. Hum. Genet. 29: 405-407, 1977.

NCBI AND UNIPROT INFORMATION

NCBI GI #	130348
NCBI GeneID	5223
UniProt Accession #	P18669; Q9BWC0
Molecular Weight	254
NCBI Official Full Name	Phosphoglycerate mutase 1
NCBI Official Synonym Full Names	phosphoglycerate mutase 1 (brain)
NCBI Official Symbol	PGAM1
NCBI Official Synonym Symbols	PGAMA; PGAM-B; HEL-S-35
NCBI Protein Information	phosphoglycerate mutase 1; BPG-dependent PGAM 1; phosphoglycerate mutase isozyme B; epididymis secretory protein Li 35; phosphoglycerate mutase A, nonmuscle form
UniProt Protein Name	Phosphoglycerate mutase 1
UniProt Gene Name	PGAM1
UniProt Synonym Gene Names	PGAMA; PGAM-B
UniProt Entry Name	PGAM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pgam1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127232>