

Rabbit anti-Human PGM5 Polyclonal Antibody | anti-PGM5 antibody

Anti-PGM5 Antibody Picoband

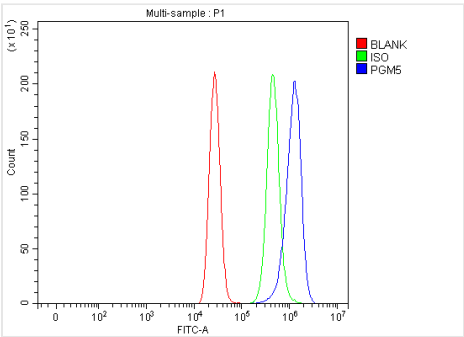
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127727	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PGM5; Polyclonal Antibody; Anti-PGM5 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-PGM5 antibody

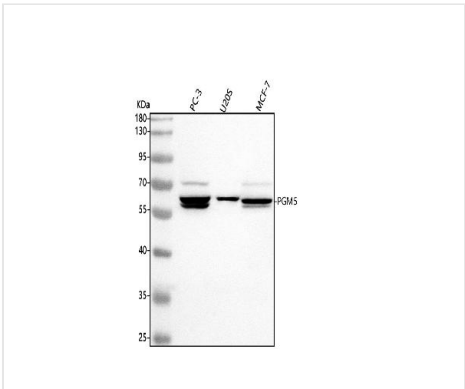
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PGM5 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PGM5 recombinant protein (Position: Q37-H555). Human PGM5 shares 97.5% and 96.9% amino acid (aa) sequence identity with mouse and rat PGM5, respectively.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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 2. Flow Cytometry analysis of MCF-7 cells using anti-PGM5 antibody (AAA127727).Overlay histogram showing MCF-7 cells stained with AAA127727 (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-PGM5 Antibody (AAA127727, 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 (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PGM5 using anti-PGM5 antibody (AAA127727).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 PC-3 whole cell lysates,Lane 2: human U20S whole cell lysates,Lane 3: human MCF-7 whole cell 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-PGM5 antigen affinity purified polyclonal antibody (#AAA127727) at 0.5ug/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 PGM5 at approximately 62 kDa. The expected band size for PGM5 is at 62 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PGM5 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-PGM5 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Edwards, Y. H., Putt, W., Fox, M., Ives, J. H. A novel phosphoglucomutase (PGM5) maps to the centromeric region of chromosome 9. Genomics 30: 350-353, 1995. 2. Fan, Y., Newman, T., Linardopoulou, E., Trask, B. J. Gene content and function of the ancestral chromosome fusion site in human chromosome 2q13-2q14.1 and paralogous regions. Genome Res. 12: 1663-1672, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119582864
NCBI GeneID	5239
UniProt Accession #	Q15124; Q5VYV3; Q8N527; Q9UDH4; B1AM46; B4DLQ6
Molecular Weight	41,790 Da
NCBI Official Full Name	phosphoglucomutase 5, partial
NCBI Official Synonym Full Names	phosphoglucomutase 5
NCBI Official Symbol	PGM5
NCBI Official Synonym Symbols	PGMRP
NCBI Protein Information	phosphoglucomutase-like protein 5
UniProt Protein Name	Phosphoglucomutase-like protein 5

UniProt Gene Name	PGM5
UniProt Synonym Gene Names	PGMRP; PGM-RP

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://www.aaabiotech.com/polyclonal/pgm5-antibody-flow-cytometry-western-blot-elisa/127727>