

Rabbit PGM2 Polyclonal Antibody | anti-PGM2 antibody

Anti-PGM2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127466	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

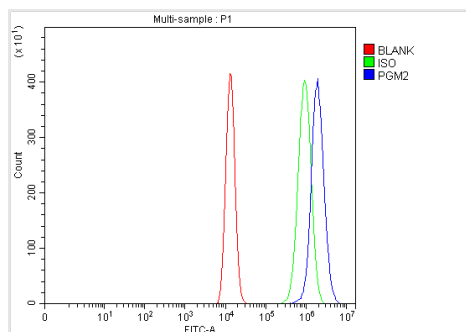
PRODUCT SYNONYMS

PGM2; Polyclonal Antibody; Anti-PGM2 Antibody Picoband; anti-PGM2 antibody

PRODUCT SPECIFICATIONS

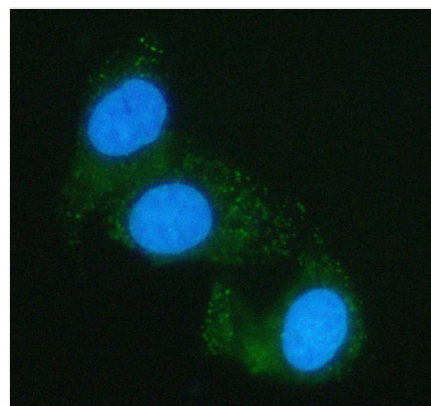
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PGM2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PGM2 recombinant protein (Position: R72-D520). Human PGM2 shares 92.7% amino acid (aa) sequence identity with mouse PGM2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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.

IMAGES



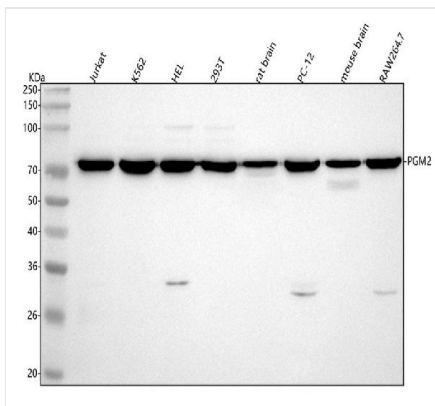
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEL cells using anti-PGM2 antibody (AAA127466). Overlay histogram showing HEL cells stained with AAA127466 (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-PGM2 Antibody (AAA127466, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of PGM2 using anti-PGM2 antibody (AAA127466). PGM2 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-PGM2 Antibody (AAA127466) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG 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.



WB (Western Blot)

Figure 1. Western blot analysis of PGM2 using anti-PGM2 antibody (AAA127466). 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 Jurkat whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human HEL whole cell lysates, Lane 4: human 293T whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse RAW264.7 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-PGM2 antigen affinity purified polyclonal antibody (#AAA127466) 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 PGM2 at approximately 75 kDa. The expected band size for PGM2 is at 68 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PGM2 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-PGM2 antibody	Primary Antibodies
References	1. Francke, U., Brown, S. Regional assignment of genes for phosphoglucomutase-2 and peptidase S to 4pter-4q21 in man. Cytogenet. Cell Genet. 22: 401-405, 1978. 2. Hopkinson, D. A., Harris, H. Evidence for a second 'structural' locus determining human phosphoglucomutase. Nature 208: 410-412, 1965.3. Maliekal, P., Sokolova, T., Vertommen, D., Veiga-da-Cunha, M., Van Schaftingen, E. Molecular identification of mammalian phosphopentomutase and glucose-1,6-bisphosphate synthase, two members of the alpha-D-phosphohexomutase family. J. Biol. Chem. 282: 31844-31851, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	63055049
NCBI GeneID	55276
NCBI Accession #	NP_060760.2
NCBI GenBank Nucleotide #	NM_018290.3
UniProt Accession #	Q96G03 ; Q53FP5 ; Q5QTR0 ; Q9H0P9 ; Q9NV22 ; B4E0G8
Molecular Weight	32,724 Da
NCBI Official Full Name	phosphoglucomutase-2
NCBI Official Synonym Full Names	phosphoglucomutase 2
NCBI Official Symbol	PGM2

NCBI Official Synonym Symbols	MSTP006
NCBI Protein Information	phosphoglucomutase-2
UniProt Protein Name	Phosphoglucomutase-2
UniProt Gene Name	PGM2
UniProt Synonym Gene Names	PGM 2
UniProt Entry Name	PGM2_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://www.aaabiotech.com/polyclonal/pgm2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127466>