

Mouse anti-Human PGAM2 Monoclonal Antibody | anti-PGAM2 antibody

PGAM2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48210	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

PGAM2; Monoclonal Antibody; PGAM2 antibody; Phosphoglycerate mutase 2; GSD10; PGAM-M; PGAMM; anti-PGAM2 antibody

PRODUCT SPECIFICATIONS

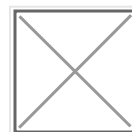
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT5A7
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	253
Applicable Applications for anti-PGAM2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PGAM2 (1-253aa) purified from E. coli
Clone Note	Anti-human PGAM2 mAb, clone AT5A7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PGAM2 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of PGAM2 in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PGAM2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The recombinant protein (50ng) and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PGAM2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : Recombinant protein (50ng) Lane 2. : HeLa cell lysate Lane 3. : HepG2 cell lysate Lane 4. : 293T cell lysate Lane 5. : Jurkat cell lysate Lane 6. : NIH3T3 cell lysate Lane 7. : A549 cell lysate Lane 8. : MCF7 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PGAM2 antibody	Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. Since both 3-PGA and 2-PGA are allosteric regulators of the pentose phosphate pathway (PPP) and glycine and serine synthesis pathways, respectively, PGAM2 may contribute to the biosynthesis of amino acids, 5-carbon sugar, and nucleotides precursors. 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 gene cause muscle phosphoglycerate mutase deficiency, also known as glycogen storage disease X. PGAM2 is one of two PGAM subunits found in humans and is predominantly expressed in adult muscle.
Product Categories/Family for anti-PGAM2 antibody	Signal Transduction
References	Tsujino S., et al. (1986) The Journal of biological chemistry. 264 (26): 15334-7.; Xu Y., et al. (2014) Cancer research. 74 (13): 3630-42.; Tsujino S., et al. (1993) American journal of human genetics. 52 (3): 472-7.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	50593010
NCBI GeneID	5224
NCBI Accession #	NP_000281
NCBI GenBank Nucleotide #	NM_000290.3
UniProt Accession #	P15259
Molecular Weight	28,766 Da
NCBI Official Full Name	phosphoglycerate mutase 2
NCBI Official Synonym Full Names	phosphoglycerate mutase 2
NCBI Official Symbol	PGAM2
NCBI Official Synonym Symbols	GSD10; PGAMM; PGAM-M
NCBI Protein Information	phosphoglycerate mutase 2
UniProt Protein Name	Phosphoglycerate mutase 2
UniProt Gene Name	PGAM2
UniProt Synonym Gene Names	PGAMM; PGAM-M

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/monoclonal/pgam2-antibody-clone-at5a7-immunofluorescence-immunocytochemistry-flow-cytometry-western-blot-elisa/48210>