

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

BPGM antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48268	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

BPGM; Monoclonal Antibody; BPGM antibody; Bisphosphoglycerate mutase; BPG-dependent PGAM; Bisphosphoglycerate mutase 2; 3-bisphosphoglycerate mutase; erythrocyte; 2; 3-bisphosphoglycerate synthase; Ab2 098; AI323730 AL022789; BPG dependent PGAM; C86192.; anti-BPGM antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT2E11
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	259
Applicable Applications for anti-BPGM antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human BPGM (1-259aa) purified from E. coli.
Clone Note	Anti-human BPGM mAb, clone AT2E11, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human BPGM 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 BPGM in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human BPGM antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BPGM 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.: BPGM transfected 293T cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-BPGM antibody	Bisphosphoglycerate mutase (BPGM) is an enzyme unique to erythrocytes and placental cells. This protein plays a major role in regulating hemoglobin oxygen affinity as a consequence of controlling 2,3-BPG concentration. It is responsible for the catalytic synthesis of 2,3-Bisphosphoglycerate (2,3-BPG) from 1,3-BPG. BPGM also has a mutase and a phosphatase function, but these are much less active.
Product Categories/Family for anti-BPGM antibody	Signal Transduction; Metabolism
References	Pritlove DC., et al. (2006) Placenta. 27 (8): 924-7. ; Wang Y., et al. (2006) J. Biol. Chem. 281 (51): 39642-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502445
NCBI GeneID	669
NCBI Accession #	NP_001715
NCBI GenBank Nucleotide #	NM_001724.4
UniProt Accession #	P07738; A4D1N9
Molecular Weight	30,005 Da
NCBI Official Full Name	bisphosphoglycerate mutase
NCBI Official Synonym Full Names	bisphosphoglycerate mutase
NCBI Official Symbol	BPGM
NCBI Official Synonym Symbols	DPGM
NCBI Protein Information	bisphosphoglycerate mutase
UniProt Protein Name	Bisphosphoglycerate mutase
UniProt Gene Name	BPGM
UniProt Synonym Gene Names	DPGM

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.