

Human BPGM antibody

Catalog Number: ATGA0455

PRODUCT INFORMATION

Catalog number

ATGA0455

Clone No.

AT2E11

Product type

Monoclonal Antibody

UnitProt No.

P07738

NCBI Accession No.

NP_001715

Alternative Names

Bisphosphoglycerate mutase, BPG-dependent PGAM, Bisphosphoglycerate mutase 2,3-bisphosphoglycerate mutase, erythrocyte, 2,3-bisphosphoglycerate mutase, 2,3-bisphosphoglycerate synthase, Ab2 098, AI323730 AL022789, BPG dependent PGAM, C86192.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human BPGM (1-259aa) purified from E. coli.

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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.

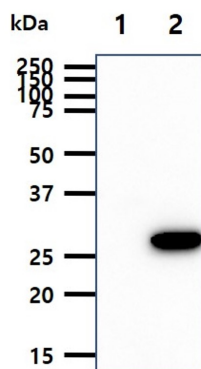
General References

Pritlove DC., et al. (2006) Placenta. 27(8): 924-7.

Wang Y., et al. (2006) J. Biol. Chem. 281(51): 39642-8.

DATA

Western blot analysis (WB)

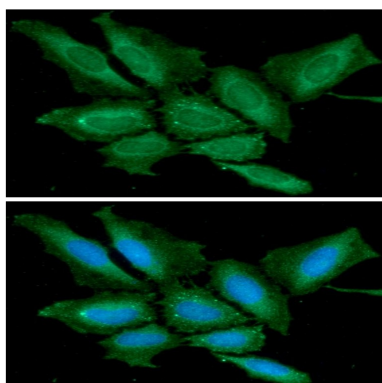


The cell lysates(10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human BPGM antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

Lane 2.: BPGM transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of BPGM in HeLa cells. The cell was stained with ATGA0445 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of BPGM in HeLa cells. The cell was stained with ATGA0455 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

