10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BPGM Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8864c

Specification

BPGM Antibody (Center) Blocking Peptide - Product Information

Primary Accession P07738

BPGM Antibody (Center) Blocking Peptide - Additional Information

Gene ID 669

Other Names
Bisphosphoglycerate mutase, BPGM, 3-bisphosphoglycerate mutase, erythrocyte, 3-bisphosphoglycerate synthase, 3-diphosphoglycerate mutase, DPGM, BPG-dependent PGAM, BPGM

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8864c was selected from the Center region of human BPGM. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BPGM Antibody (Center) Blocking Peptide - Protein Information

Name BPGM

Function
Plays a major role in regulating hemoglobin oxygen affinity by controlling the levels of its allosteric effector 2,3- bisphosphoglycerate (2,3-BPG). Also exhibits mutase (EC 5.4.2.11) activity.

Tissue Location
Expressed in red blood cells. Expressed in non- erythroid cells of the placenta; present in the syncytiotrophoblast layer of the placental villi at the feto-maternal interface (at protein level).

BPGM Antibody (Center) Blocking Peptide - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

BPGM Antibody (Center) Blocking Peptide - Images

BPGM Antibody (Center) Blocking Peptide - Background

BPGM is a small molecule found at high concentrations in red blood cells where it binds to and decreases the oxygen affinity of hemoglobin. This protein encodes a multifunctional enzyme that catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. The enzyme also has phosphoglycerate phosphomutase activity.

BPGM Antibody (Center) Blocking Peptide - References

Wang,Y., et.al., J. Biol. Chem. 281 (51), 39642-39648 (2006)