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BPGM Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12615b

Specification

BPGM Antibody (C-term) Blocking peptide - Product Information

Primary Accession P07738

BPGM Antibody (C-term) 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

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 (C-term) 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 (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

BPGM Antibody (C-term) Blocking peptide - Images

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BPGM Antibody (C-term) Blocking peptide - Background

2,3-diphosphoglycerate (2,3-DPG) is a small molecule foundat high concentrations in red blood cells where it binds to anddecreases the oxygen affinity of hemoglobin. This gene encodes amultifunctional enzyme that catalyzes 2,3-DPG synthesis via itssynthetase activity, and 2,3-DPG degradation via its phosphataseactivity. The enzyme also has phosphoglycerate phosphomutaseactivity. Deficiency of this enzyme increases the affinity of cellsfor oxygen. Mutations in this gene result in hemolytic anemia.Multiple alternatively spliced variants, encoding the same protein,have been identified.

BPGM Antibody (C-term) Blocking peptide - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)Wang, Y., et al. J. Biol. Chem. 281(51):39642-39648(2006)Wang, Y., et al. J. Biol. Chem. 279(37):39132-39138(2004)Fujita, T., et al. J. Biochem. 124(6):1237-1244(1998)Fujita, T., et al. J. Biochem. 124(6):1237-1244(1998)