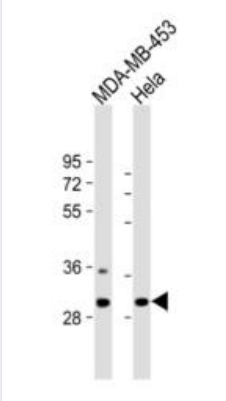
BPGM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BPGM, Polyclonal Antibody
Full Product Name	BPGM, CT (BPGM, Bisphosphoglycerate mutase, 2,3-bisphosphoglycerate mutase, erythrocyte, 2,3-bisphosphoglycerate synthase, 2,3-diphosphoglycerate mutase, BPG-dependent PGAM) (MaxLight 550)
Product Gene Name	anti-BPGM antibody
Product Synonym Names	BPGM; Bisphosphoglycerate mutase; 2,3-bisphosphoglycerate mutase; erythrocyte; 2,3-bisphosphoglycerate synthase; 2,3-diphosphoglycerate mutase; BPG-dependent PGAM
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human BPGM.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	31 kDa (267aa), confirmed by MALDI-TOF
OMIM	phenotype 613896
3D Structure	ModBase 3D Structure for P07738
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 230-259 in the C-terminal region of human BPGM. Species sequence homology: monkey
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-BPGM antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-BPGM antibody	Western Blot (WB), FLISA
Application Notes for anti-BPGM antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BPGM antibody	2,3-diphosphoglycerate (2,3-DPG) is a small molecule found at high concentrations in red blood cells where it binds to and decreases the oxygen affinity of hemoglobin. This gene 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. Deficiency of this enzyme increases the affinity of cells for oxygen. Mutations in this gene result in hemolytic anemia. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Product References and Citations for anti-BPGM antibody	1. Lamesch, P., et al. Genomics 89(3):307-315(2007). 2. Wang, Y., et al. J. Biol. Chem. 281(51):39642-39648(2006). 3. Wang, Y., et al. J. Biol. Chem. 279(37):39132-39138(2004). 4. Fujita, T., et al. J. Biochem. 124(6):1237-1244(1998).

Other Notes	Small volumes of anti-BPGM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BPGM purchase	MBS6278754 is an antibody targeting BPGM. Also known as BPGM, CT (BPGM, Bisphosphoglycerate mutase, 2,3-bisphosphoglycerate mutase, erythrocyte, 2,3-bisphosphoglycerate synthase, 2,3-diphosphoglycerate mutase, BPG-dependent PGAM) (MaxLight 550). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-BPGM antibody
Western Blot using MBS645558 (1:2000) Lane 1: MDA-MB-453 whole cell lysate 20ug/lane Lane 2: Hela whole cell lysate 20ug/lane Secondary IgG (HRP) Goat Anti-Rabbit Predicted band size: 30kD Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BPGM. It may not necessarily be applicable to this product.

NCBI GI #	40353764
NCBI GeneID	669
NCBI Accession #	NP_954655.1
NCBI Related Accession #	NP_001715.1
UniProt Primary Accession #	P07738
UniProt Secondary Accession #	A4D1N9
UniProt Related Accession #	P07738
GenBank Nucleotide #	NM_199186.2
NCBI Official Full Name	bisphosphoglycerate mutase
NCBI Official Synonym Full Names	2,3-bisphosphoglycerate mutase
NCBI Official Symbol	BPGM
NCBI Official Synonym Symbols	DPGM
UniProt Protein Name	Bisphosphoglycerate mutase
UniProt Synonym Protein Names	2,3-bisphosphoglycerate mutase, erythrocyte; 2,3-bisphosphoglycerate synthase (EC:3.1.3.13, EC:5.4.2.11); 2,3-diphosphoglycerate mutase; DPGM; BPG-dependent PGAM
Protein Family	Bisphosphoglycerate mutase
UniProt Gene Name	BPGM
UniProt Synonym Gene Names	BPGM; DPGM
UniProt Entry Name	PMGE_HUMAN

NCBI Protein Information	bisphosphoglycerate mutase
UniProt Comments for BPGM	BPGM: 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 5.4.2.1) and phosphatase (EC 3.1.3.13) activities. Defects in BPGM are the cause of bisphosphoglycerate mutase deficiency (BPGMD). A disease characterized by hemolytic anemia, splenomegaly, cholelithiasis and cholecystitis. Belongs to the phosphoglycerate mutase family. BPG- dependent PGAM subfamily. Protein type: EC 5.4.2.4; EC 3.1.3.13; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Phosphatase (non-protein); EC 5.4.2.11; Isomerase Chromosomal Location of Human Ortholog: 7q33 Molecular Function: phosphoglycerate mutase activity; bisphosphoglycerate mutase activity; bisphosphoglycerate phosphatase activity Biological Process: erythrocyte development; glycolysis; dephosphorylation; carbohydrate metabolic process; respiratory gaseous exchange Disease: Bisphosphoglycerate Mutase Deficiency
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