PGAM2 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PGAM2, Blocking Peptide
Full Product Name	PGAM2 Antibody (N-term) Blocking Peptide
Product Gene Name	PGAM2 blocking peptide
Product Synonym Gene Name	PGAMM
Product Synonym Names	Phosphoglycerate mutase 2; BPG-dependent PGAM 2; Muscle-specific phosphoglycerate mutase; Phosphoglycerate mutase isozyme M; PGAM-M; PGAM2; PGAMM
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PGAM2 peptide (MBS9217641) is used for blocking the activity of PGAM2 antibody (MBS9211488)
Molecular Weight	28,766 Da
OMIM	261670
Tissue Location	In mammalian tissues there are two types of phosphoglycerate mutase isozymes: type-M in muscles and type-B in other tissues
Related Product Information for PGAM2 blocking peptide	Interconversion of 3- and 2-phosphoglycerate with 2,3- bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase) and EC 3.1.3.13 (phosphatase), but with a reduced activity.
Other Notes	Small volumes of PGAM2 blocking peptide 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 PGAM2 purchase	MBS9217641 is a blocking peptide targeting PGAM2. Also known as PGAM2 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGAM2. It may not necessarily be applicable to this product.

NCBI GI #	50593010
NCBI GeneID	5224
NCBI Accession #	NP_000281.2
UniProt Primary Accession #	P15259
UniProt Related Accession #	P15259
GenBank Nucleotide #	NM_000290.3
NCBI Official Full Name	phosphoglycerate mutase 2
NCBI Official Synonym Full Names	phosphoglycerate mutase 2
NCBI Official Symbol	PGAM2
NCBI Official Synonym Symbols	GSD10; PGAMM; PGAM-M
UniProt Protein Name	Phosphoglycerate mutase 2

UniProt Synonym Protein Names	BPG-dependent PGAM 2; Muscle-specific phosphoglycerate mutase; Phosphoglycerate mutase isozyme M; PGAM-M
Protein Family	Phosphoglycerate mutase
UniProt Gene Name	PGAM2
UniProt Synonym Gene Names	PGAMM; PGAM-M
UniProt Entry Name	PGAM2_HUMAN
NCBI Protein Information	phosphoglycerate mutase 2
NCBI Summary for PGAM2	Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The PGAM is a dimeric enzyme containing, in different tissues, different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating brain (BB) isozyme, and a hybrid form (MB). This gene encodes muscle-specific PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase eficiency, also known as glycogen storage disease X. [provided by RefSeq, Sep 2009]
UniProt Comments for PGAM2	PGAM2: Interconversion of 3- and 2-phosphoglycerate with 2,3- bisphosphoglycerate as the primer of the reaction. Can also catalyze the reaction of EC 5.4.2.4 (synthase) and EC 3.1.3.13 (phosphatase), but with a reduced activity. Defects in PGAM2 are the cause of glycogen storage disease type 10 (GSD10). A metabolic disorder characterized by myoglobinuria, increased serum creatine kinase levels, decreased phosphoglycerate mutase activity, myalgia, muscle pain, muscle cramps and excercise intolerance. Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily. Protein type: EC 5.4.2.11; EC 5.4.2.4; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Phosphatase (non-protein); EC 3.1.3.13; Isomerase Chromosomal Location of Human Ortholog: 7p13-p12 Cellular Component: cytosol; nucleus Molecular Function: 2,3-bisphosphoglycerate-dependent phosphoglycerate mutase activity; phosphoglycerate mutase activity Biological Process: gluconeogenesis; glycolysis; regulation of pentose-phosphate shunt; striated muscle contraction Disease: Glycogen Storage Disease X
Research Articles on PGAM2	**1.** These results reveal a mechanism of PGAM2 regulation and NADPH homeostasis in response to oxidative stress that impacts cell proliferation and tumor growth.
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