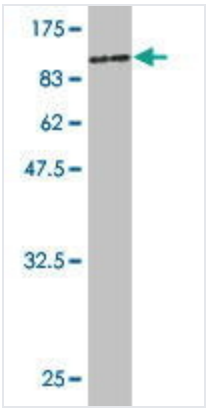
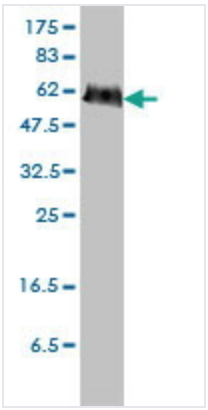
PGM3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

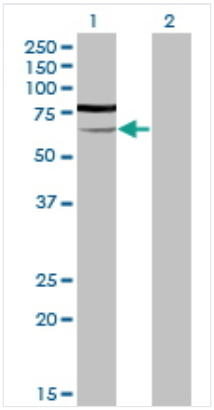
Product Name	PGM3, Monoclonal Antibody
Full Product Name	PGM3 (Phosphoacetylglucosamine Mutase, PAGM, Acetylglucosamine Phosphomutase, N-acetylglucosamine-phosphate Mutasem Phosphoglucomut
Product Gene Name	anti-PGM3 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1E2-1B12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PGM3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	62,941 Da
Immunogen	Full length recombinant corresponding to aa1-543 from human PGM3 (AAH01258) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDLGAITKYSALHAKPNGLILQYGTAGFRTKAEHLDHVMFRMGLLAVLRSKQTKSTIGVMVTASHNPEEDNGVKLVDPLGEMLAPSWEEHATCLANAEEQ
Conjugate	HRP
Product Categories/Family for anti-PGM3 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-PGM3 antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin, Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-PGM3 antibody	IHC-P: 2ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-PGM3 antibody	MBS6154114 is an antibody targeting PGM3. Also known as PGM3 (Phosphoacetylglucosamine Mutase, PAGM, Acetylglucosamine Phosphomutase,
Other Notes	Small volumes of anti-PGM3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess



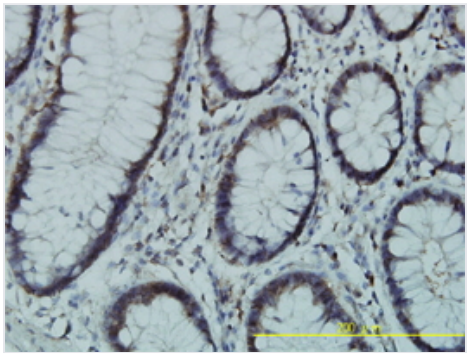
Western Blot (WB) of anti-PGM3 antibody
Western Blot detection against Immunogen (85.36kD).



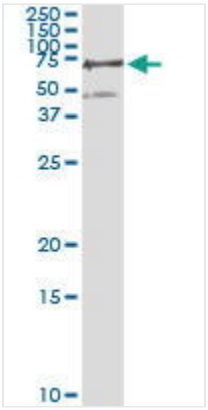
Western Blot (WB) of anti-PGM3 antibody
PGM3 monoclonal antibody Western Blot analysis of PGM3 expression in HeLa.



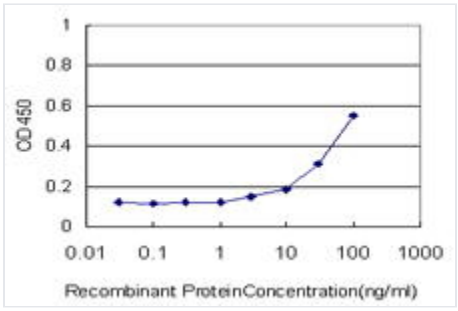
Western Blot (WB) of anti-PGM3 antibody
Western Blot analysis of PGM3 expression in transfected 293T cell line by PGM3 monoclonal antibody. Lane 1: PGM3 transfected lysate (59.9kD). Lane 2: Non-transfected lysate.



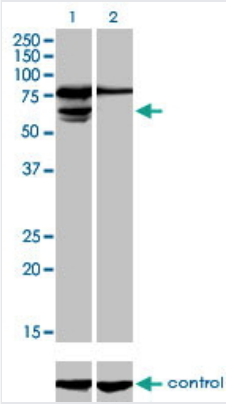
Immunohistochemistry (IHC) of anti-PGM3 antibody
Immunoperoxidase of monoclonal antibody to PGM3 on formalin-fixed paraffin-embedded human colon tissue. [antibody concentration 2ug/ml]



Immunoprecipitation (IP) of anti-PGM3 antibody
Immunoprecipitation of PGM3 transfected lysate using PGM3 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PGM3 rabbit polyclonal antibody.



Testing Data of anti-PGM3 antibody
Detection limit for recombinant GST tagged PGM3 is ~3ng/ml as a capture antibody.



Western Blot (WB) of anti-PGM3 antibody
Western blot analysis of PGM3 over-expressed 293 cell line, cotransfected with PGM3 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with PGM3 monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGM3. It may not necessarily be applicable to this product.

NCBI GI #	12654830
NCBI GeneID	5238
NCBI Accession #	BC001258
NCBI Related Accession #	AAH01258
UniProt Secondary Accession #	Q5JWR4; Q96J46; Q9H8G5; Q9NS94; Q9NTT6; Q9UFV5; B2RB65; B4DX94; D6RF12; E1P547; E9PF86
UniProt Related Accession #	O95394
NCBI Official Full Name	Homo sapiens phosphoglucomutase 3, mRNA
NCBI Official Synonym Full Names	phosphoglucomutase 3
NCBI Official Symbol	PGM3
NCBI Official Synonym Symbols	AGM1; PAGM; IMD23; PGM 3
NCBI Protein Information	phosphoacetylglucosamine mutase; N-acetylglucosamine-phosphate mutase 1; acetylglucosamine phosphomutase
NCBI Summary for PGM3	This gene encodes a member of the phosphohexose mutase family. The encoded protein mediates both glycogen formation and utilization by catalyzing the interconversion of glucose-1-phosphate and glucose-6-phosphate. A non-synonymous single nucleotide polymorphism in this gene may play a role in resistance to diabetic nephropathy and neuropathy. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2010]
Research Articles on PGM3	**1.** define PGM3-CDG as a treatable immunodeficiency, document the power of whole-exome sequencing in gene discoveries for rare disorders, and illustrate the utility of genomic analyses in studying combined and variable phenotypes
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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