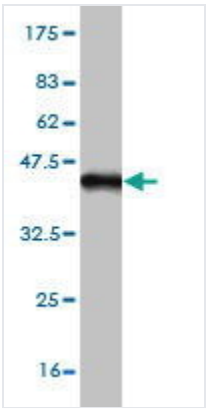
PGM2 Antibody – Mouse Monoclonal

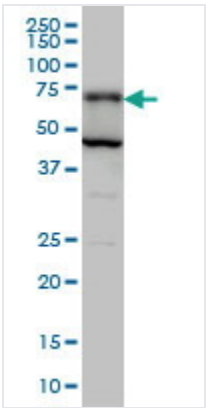
PRODUCT OVERVIEW

Product Name	PGM2, Monoclonal Antibody
Full Product Name	PGM2 (Phosphoglucomutase-2, PGM 2, Glucose Phosphomutase 2, Phosphopentomutase, Phosphodeoxyribomutase, MSTP006, FLJ10983) (FITC)
Product Gene Name	anti-PGM2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1A3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PGM2.
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 store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	70.7kDa (635aa)
OMIM	172000
3D Structure	ModBase 3D Structure for Q96G03
Immunogen	Partial recombinant protein corresponding to aa1-90 from human PGM2 with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAAPEGSGLGEDARLDQETAQWLRWDKNSLTLEAVKRLIAEGNKEELRKCFGARMEFGTAGLRAAMGPGISRMNDLTIIQTTQGFCRYLE
Conjugate	FITC
Product Categories/Family for anti-PGM2 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-PGM2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-PGM2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PGM2 antibody	Catalyzes the conversion of the nucleoside breakdown products ribose-1-phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses. May also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. Has low glucose 1,6-bisphosphate synthase activity.
Other Notes	Small volumes of anti-PGM2 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.

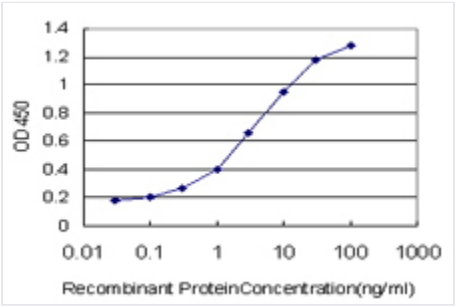
Searchable Terms for PGM2 purchase	MBS6148810 is an antibody targeting PGM2. Also known as PGM2 (Phosphoglucomutase-2, PGM 2, Glucose Phosphomutase 2, Phosphopentomutase, Phosphodeoxyribomutase, MSTP006, FLJ10983) (FITC). Reactive in Human. Host: Mouse.



Testing Data of anti-PGM2 antibody
Detection limit for recombinant GST tagged PGM2 is ~0.03ng/ml using MBS6005788 as a capture antibody.



Western Blot (WB) of anti-PGM2 antibody
Western Blot detection against Immunogen (36.01kD). using 131218



Western Blot (WB) of anti-PGM2 antibody
Western Blot analysis of PGM2 expression in Hela NE usingMBS6005788.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGM2. It may not necessarily be applicable to this product.

NCBI GI #	63055049
NCBI GeneID	55276
NCBI Accession #	NP_060760
UniProt Primary Accession #	Q96G03
UniProt Secondary Accession #	Q53FP5; Q5QTR0; Q9H0P9; Q9NV22; B4E0G8
UniProt Related Accession #	Q96G03
GenBank Nucleotide #	NM_018290
NCBI Official Full Name	phosphoglucomutase-2
NCBI Official Synonym Full Names	phosphoglucomutase 2
NCBI Official Symbol	PGM2
NCBI Official Synonym Symbols	MSTP006
UniProt Protein Name	Phosphoglucomutase-2
UniProt Synonym Protein Names	Glucose phosphomutase 2; Phosphodeoxyribomutase; Phosphopentomutase (EC:5.4.2.7)
Protein Family	Phosphoglucomutase
UniProt Gene Name	PGM2

UniProt Synonym Gene Names	PGM 2
UniProt Entry Name	PGM2_HUMAN
NCBI Protein Information	phosphoglucomutase-2
UniProt Comments for PGM2	PGM2: Catalyzes the conversion of the nucleoside breakdown products ribose-1-phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses. May also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. Has low glucose 1,6-bisphosphate synthase activity. Belongs to the phosphohexose mutase family. Protein type: Carbohydrate Metabolism - amino sugar and nucleotide sugar; Carbohydrate Metabolism - galactose; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Carbohydrate Metabolism - pentose phosphate pathway; Carbohydrate Metabolism - starch and sucrose; EC 5.4.2.2; EC 5.4.2.7; Isomerase Chromosomal Location of Human Ortholog: 4p14 Cellular Component: cytosol Molecular Function: phosphoglucomutase activity; phosphopentomutase activity; protein binding Biological Process: galactose catabolic process; glycogen biosynthetic process; glycogen catabolic process; pentose-phosphate shunt
Research Articles on PGM2	**1.** In the present work, phosphopentomutase was purified from human erythrocytes and found it to copurify with a 68-kDa polypeptide that was identified by mass spectrometry as PGM2, sharing about 20% identity with mammalian phosphoglucomutase 1.
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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