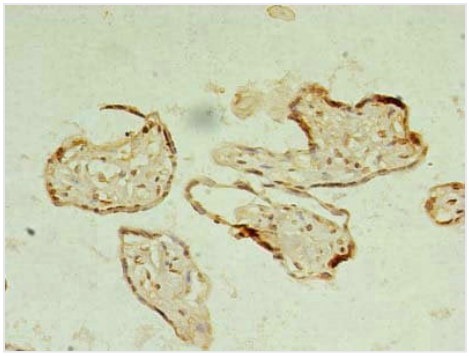
PGAM5 Antibody – Rabbit Polyclonal

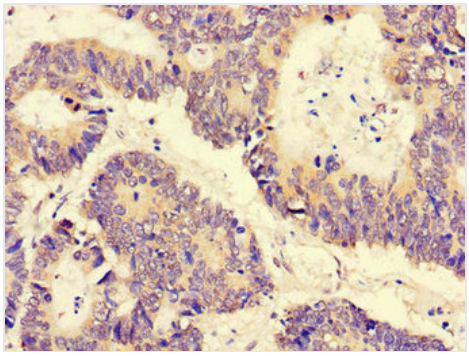
PRODUCT OVERVIEW

Product Name	PGAM5, Polyclonal Antibody
Full Product Name	PGAM5 Antibody
Product Gene Name	anti-PGAM5 antibody
Product Synonym Names	Serine/threonine-protein phosphatase PGAM5; mitochondrial; Bcl-XL-binding protein v68; Phosphoglycerate mutase family member 5; PGAM5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PGAM5 (MBS7050831) HRP Conjugated Antibody: PGAM5 (MBS7050832)
Matching Pairs	Unconjugated Antibody: PGAM5 (MBS7050831) FITC Conjugated Antibody: PGAM5 (MBS7050833)
Matching Pairs	Unconjugated Antibody: PGAM5 (MBS7050831) Biotin Conjugated Antibody: PGAM5 (MBS7050834)
Molecular Weight	28,020 Da
OMIM	EU249757 mRNA
3D Structure	ModBase 3D Structure for Q96HS1
Immunogen	Recombinant human Serine/threonine-protein phosphatase PGAM5, mitochondrial protein (30-223AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-161155 / sc-161156 / sc-161157
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PGAM5 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-PGAM5 antibody	IHC: 1: 20-1: 200 IF: 1: 50-1: 200
Related Product Information for anti-PGAM5 antibody	Displays phosphatase activity for serine/threonine residues, and, dephosphorylates and activates MAP3K5 kinase. Has apparently no phosphoglycerate mutase activity. May be regulator of mitochondrial dynamics. Substrate for a KEAP1-dependent ubiquitin ligase complex. Contributes to the repression of NFE2L2-dependent gene expression. Acts as a central mediator for programmed necrosis induced by TNF, by reactive oxygen species and by calcium ionophore.

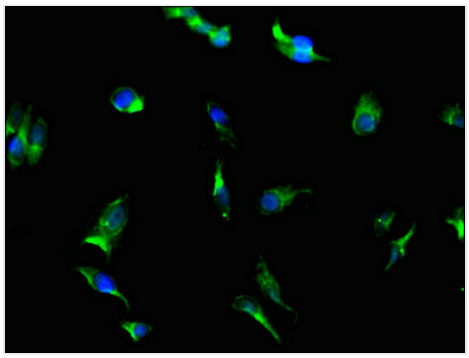
Other Notes	Small volumes of anti-PGAM5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PGAM5 purchase	MBS7050831 is an antibody targeting PGAM5. Also known as PGAM5 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-PGAM5 antibody
Immunohistochemistry of paraffin-embedded human placenta tissue at dilution of 1:100



Immunohistochemistry (IHC) of anti-PGAM5 antibody
Immunohistochemistry of paraffin-embedded human colon cancer at dilution of 1:100



Immunohistochemistry (IHC) of anti-PGAM5 antibody
Immunofluorescent analysis of Hela cells at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGAM5. It may not necessarily be applicable to this product.

NCBI GI #	281604136
NCBI GeneID	192111
NCBI Accession #	NP_001164014.1
UniProt Primary Accession #	Q96HS1
UniProt Secondary Accession #	Q96JB0; A9LN06; C9IZY7
UniProt Related Accession #	Q96HS1
GenBank Nucleotide #	NM_001170543.1
NCBI Official Full Name	serine/threonine-protein phosphatase PGAM5, mitochondrial isoform 1
NCBI Official Synonym Full Names	PGAM family member 5, mitochondrial serine/threonine protein phosphatase
NCBI Official Symbol	PGAM5
NCBI Official Synonym Symbols	BXLBV68
UniProt Protein Name	Serine/threonine-protein phosphatase PGAM5, mitochondrial
UniProt Synonym Protein Names	Bcl-XL-binding protein v68; Phosphoglycerate mutase family member 5

Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PGAM5
UniProt Entry Name	PGAM5_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase PGAM5, mitochondrial
UniProt Comments for PGAM5	PGAM5: Displays phosphatase activity for serine/threonine residues, and, dephosphorylates and activates MAP3K5 kinase. Has apparently no phosphoglycerate mutase activity. May be regulator of mitochondrial dynamics. Substrate for a KEAP1-dependent ubiquitin ligase complex. Contributes to the repression of NFE2L2- dependent gene expression. Belongs to the phosphoglycerate mutase family. BPG- dependent PGAM subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.3.16; Hydrolase; Membrane protein, integral; Mitochondrial Chromosomal Location of Human Ortholog: 12q24.33 Cellular Component: mitochondrion Molecular Function: GTPase activator activity; phosphoric monoester hydrolase activity; protein complex binding; receptor signaling protein serine/threonine phosphatase activity
Research Articles on PGAM5	**1.** Results indicate that a multiprotein complex including PGAM5, Bax and Drp1 proteins specifically formed during intrinsic apoptosis induction.
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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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