

Rabbit PGAM5 Polyclonal Antibody | anti-PGAM5 antibody

PGAM5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328959	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)	ELISA, Western Blot

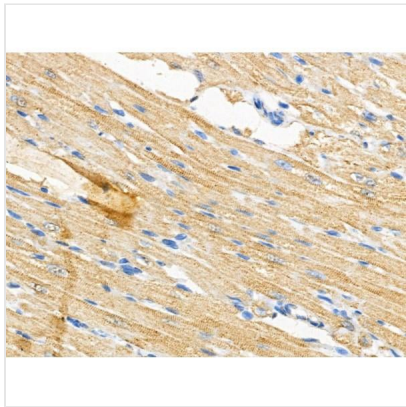
PRODUCT SYNONYMS

PGAM5; Polyclonal Antibody; PGAM5 Antibody; Bcl-XL-binding protein v68; BXLBV68; MGC5352; mitochondrial; PGAM5_HUMAN; Phosphoglycerate mutase family member 5; Serine/threonine protein phosphatase PGAM5 mitochondrial; Serine/threonine-protein phosphatase PGAM5; anti-PGAM5 antibody

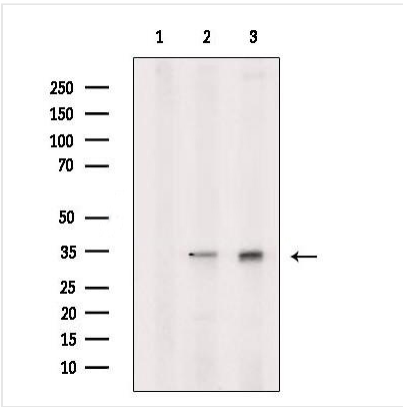
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	PGAM5 Antibody detects endogenous levels of total PGAM5.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	289
Applicable Applications for anti-PGAM5 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human PGAM5, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA328959 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on various cells lysates using PGAM5 Antibody. Lane 1 was treated with the blocking peptide. Lane 2 Rat muscle Lane 3 EC304 UV2h

ADDITIONAL INFORMATION

Related Product Information for anti-PGAM5 antibody	Function: 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. Post Translational Modifications: Both isoform 1 and isoform 2 are phosphorylated by the RIPK1/RIPK3 complex under necrotic conditions. This phosphorylation increases PGAM5 phosphatase activity. Subcellular Location: Mitochondrion outer membrane>Single-pass membrane protein. Note: Isoform 2 overexpression results in the formation of disconnected punctuate mitochondria distributed throughout the cytoplasm. Isoform 1 overexpression results in the clustering of mitochondria around the nucleus. Subunit Structure: Dimer. Forms a ternary complex with NFE2L2 and KEAP1. Interacts with BCL2L1 and MAP3K5. Upon TNF-induced necrosis, forms in complex with RIPK1, RIPK3 and MLKL; the formation of this complex leads to PGAM5 phosphorylation. Isoform 2, but not isoform 1, interacts with DNM1L; this interaction leads to DNM1L dephosphorylation and activation and eventually to mitochondria fragmentation. Similarity: The N-terminal 35 amino acids, including the potential transmembrane alpha-helix, function as a non-cleaved mitochondrial targeting sequence that targets the protein to the cytosolic side of the outer mitochondrial membrane. Belongs to the phosphoglycerate mutase family. BPG-dependent PGAM subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	281604136
NCBI GeneID	192111
NCBI Accession #	NP_001164014.1
NCBI GenBank Nucleotide #	NP_001164014.1
UniProt Accession #	Q96HS1
Molecular Weight	32KD
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
NCBI Protein Information	serine/threonine-protein phosphatase PGAM5, mitochondrial
UniProt Protein Name	Serine/threonine-protein phosphatase PGAM5, mitochondrial
UniProt Gene Name	PGAM5
UniProt Entry Name	PGAM5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pgam5-antibody-western-blot-elisa/328959>