

Rabbit PGAM5 Polyclonal Antibody | anti-PGAM5 antibody

PGAM5 (CT) Antibody

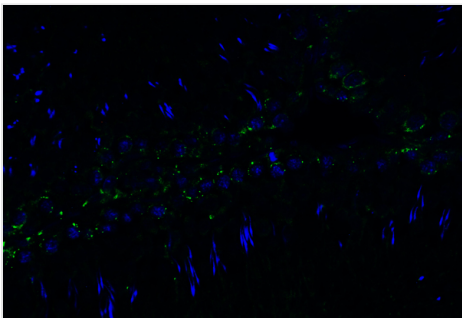
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11041	Rabbit	Human, Mouse, Rat	ELISA, Western Blot, Immunofluorescence

PRODUCT SYNONYMS

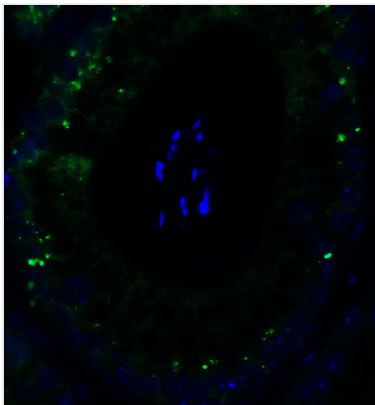
PGAM5; Polyclonal Antibody; PGAM5 (CT) Antibody; Serine/threonine-protein phosphatase PGAM5 mitochondrial; Bcl-XL-binding protein v68; Phosphoglycerate mutase family member 5; PGAM family member 5; mitochondrial serine/threonine protein phosphatase; anti-PGAM5 antibody

PRODUCT SPECIFICATIONS

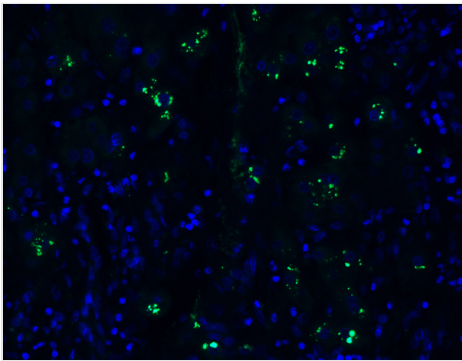
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	PGAM5 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; PGAM5 Antibody is supplied in PBS containing 0.02% sodium azide
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-PGAM5 antibody	ELISA, WB (Western Blot), IF (Immunofluorescence)
Application Notes	WB: 0.5ug/mL; IF: 10-20ug/mL Antibody validated: Western Blot in human, mouse, and rat samples; Immunofluorescence in human, mouse, and rat samples. All other applications and species not yet tested.
Immunogen	Anti-PGAM5 antibody (9517) was raised against a peptide corresponding to 14 amino acids near the carboxyl terminus of human PGAM5. The immunogen is located within the last 50 amino acids of PGAM5.
Homology	Predicted species reactivity based on immunogen sequence: gorilla (100%); Chimpanzee (100%); monkey (100%).
Research Area	Signal Transduction
NCBI Organism	Homo sapiens
Isoforms	Human PGAM5 has 2 isoforms, including isoform 1 (289aa, 32kD), and isoform 2 (255aa, 28kD). Mouse PGAM5 has 2 isoforms, including isoform 1 (288aa, 32kD) and isoform 2 (287aa, 31.9kD). Rat PGAM5 has one isoform (288aa, 32kD). can detect PGAM5 in human, mouse and rat.
Preparation and Storage	PGAM5 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



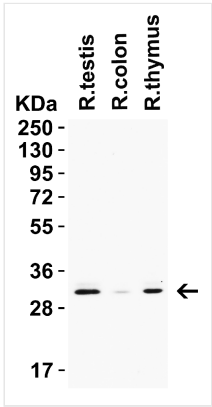
IF (Immunofluorescence)
Figure 7 Immunofluorescence Validation of PGAM5 in Rat TestisImmunofluorescent analysis of 4% paraformaldehyde-fixed rat testis labeling PGAM5 with AAA11041 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



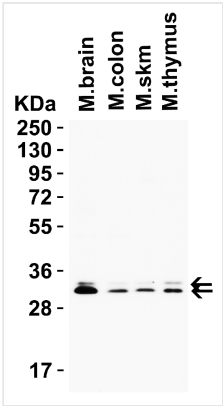
IF (Immunofluorescence)
Figure 6 Immunofluorescence Validation of PGAM5 in Mouse TestisImmunofluorescent analysis of 4% paraformaldehyde-fixed mouse testis labeling PGAM5 with AAA11041 at 10ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



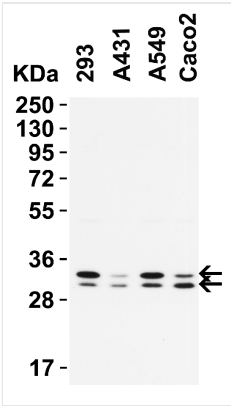
IF (Immunofluorescence)
Figure 5 Immunofluorescence Validation of PGAM5 in Human LiverImmunofluorescent analysis of 4% paraformaldehyde-fixed human liver labeling PGAM5 with AAA11041 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)
Figure 4 Western Blot Validation in Rat Tissues Loading: 15ug of lysates per lane. Antibodies: PGAM5, AAA11041 0.5ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



WB (Western Blot)
Figure 3 Western Blot Validation in Mouse Tissues Loading: 15ug of lysates per lane. Antibodies: PGAM5, AAA11041 0.5ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



WB (Western Blot)
Figure 2 Western Blot Validation in Human Cell Lines Loading: 15ug of lysates per lane. Antibodies: PGAM5, AAA11041 0.5ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-PGAM5 antibody	PGAM5 Antibody: PGAM5 is a central mediator for programmed necrosis induced by TNF and may be a regulator of mitochondrial dynamics. It displays phosphatase activity for serine/threonine residues, dephosphorylates and activates MAP3K5 kinase. It has apparently no phosphoglycerate mutase activity and is a substrate for a KEAP1-dependent ubiquitin ligase complex. It is also contributes to the repression of NFE2L2-dependent gene expression
Product Categories/Family for anti-PGAM5 antibody	Primary Antibodies
References	Lo S. et al. Exp. Cell Res. 2018; 314(8): 1789-1803 Takeda et al. PNAS 2009; 106(30): 12301-12305 Want et al. Cell 2012; 148(1-2); 228-243

NCBI AND UNIPROT INFORMATION

NCBI GI #	150417955
NCBI GeneID	192111
NCBI Accession #	NP_001164014.1
NCBI GenBank Nucleotide #	NM_001170543.1
UniProt Accession #	Q96HS1; Q96JB0; A9LN06; C9IZY7
Molecular Weight	32,004 Da
NCBI Official Full Name	serine/threonine-protein phosphatase PGAM5, mitochondrial isoform 1
NCBI Official Synonym Full Names	phosphoglycerate mutase family member 5
NCBI Official Symbol	PGAM5
NCBI Official Synonym Symbols	BXLBV68
NCBI Protein Information	serine/threonine-protein phosphatase PGAM5, mitochondrial; Bcl-XL-binding protein v68
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pgam5-antibody-western-blot-immunofluorescence-elisa/11041>