

Rabbit anti-Human PGAM1 Polyclonal Antibody | anti-PGAM1 antibody

Anti-PGAM1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256353	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

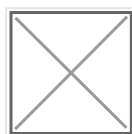
PRODUCT SYNONYMS

PGAM1; Polyclonal Antibody; Anti-PGAM1 Antibody; Rabbit Polyclonal; PGAM1 Antibody; Rabbit PAb; Antigen Affinity Purified; phosphoglycerate mutase 1 (brain); Anti-HEL-S-35 Antibody; Anti-PGAM-B Antibody; Anti-PGAMA Antibody; anti-PGAM1 antibody

PRODUCT SPECIFICATIONS

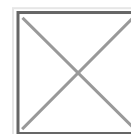
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PGAM1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PGAM1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human PGAM1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PGAM1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

PGAM1 was immunoprecipitated using: Lane A: 0.5 mg 293T Whole Cell Lysate, 4 uL anti-PGAM1 rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-PGAM1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 29 kDa. Observed band size: 29 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of PGAM1 in PC3 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human PGAM1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus and cytoplasm.



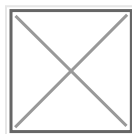
IHC (Immunohistochemistry)

Immunochemical staining of human PGAM1 in human testis with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human PGAM1 in human adrenal gland with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PGAM1 rabbit polyclonal antibody at 1:500 dilution
Lane A: 293T Whole Cell Lysate
Lane B: U-251 MG Whole Cell Lysate
Lysates/proteins at 30 ug per lane.
Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.
Developed using the ECL technique.
Performed under reducing conditions.
Predicted band size: 29 kDa
Observed band size: 29 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PGAM1 antibody

Phosphoglycerate mutase 1 (PGAM1) is a glycolytic enzyme that coordinates glycolysis and biosynthesis to promote cancer growth via its metabolic activity. PGAM1 plays a pivotal role in cancer metabolism and tumor progression via its metabolic activity and interaction with other proteins like alpha-smooth muscle actin (ACTA2). Allosteric regulation is considered to be an innovative strategy to discover a highly selective and potent inhibitor targeting PGAM1. PGAM1 is upregulated in many cancer types and involved in cell proliferation, migration, invasion, and apoptosis. PGAM1 may play an important role in prostate cancer progression and aggressiveness, and that it might be a valuable marker of poor prognosis and a potential therapeutic target for prostate cancer.

References

Zhang D, et al. (2020) Correction: Phosphoglycerate mutase 1 promotes cancer cell migration independent of its metabolic activity. *Oncogene* 39 (11): 2451-2452. Wen YA, et al. (2018) Phosphoglycerate mutase 1 knockdown inhibits prostate cancer cell growth, migration, and invasion. *Asian J Androl* 20 (2): 178-183. Wen CL, et al. (2019) An allosteric pgam1 inhibitor effectively suppresses pancreatic ductal adenocarcinoma. *Proc Natl Acad Sci U S A* 116 (46): 23264-23273. Huang K, et al. (2019) A novel allosteric inhibitor of phosphoglycerate mutase 1 suppresses growth and metastasis of non-small-cell lung cancer. *Cell Metab* 30 (6): 1107-1119.e1108.

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/pgam1-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/256353>