Rabbit PGK1 Polyclonal Antibody | anti-PGK1 antibody

PGK1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287052	**Rabbit**	**Reactivity: Human(Predicted: Horse, Monkey,Mouse, Rat)**	**Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunohistochemistry, ELISA**

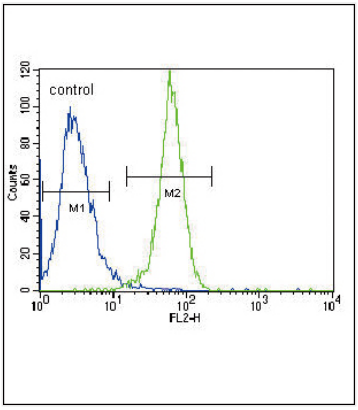
PRODUCT SYNONYMS

PGK1; Polyclonal Antibody; PGK1 Antibody (Center); Phosphoglycerate kinase 1; Cell migration-inducing gene 10 protein; Primerrecognition protein 2; PRP 2; PGKA; anti-PGK1 antibody

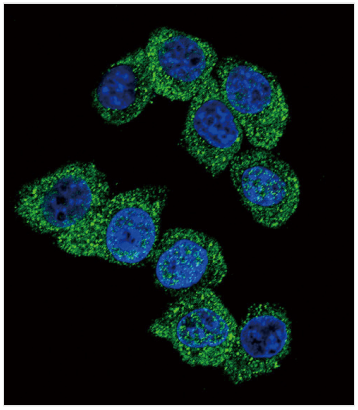
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Reactivity: Human(Predicted: Horse, Monkey,Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PGK1 antibody is generated from rabbitsimmunized with a KLH conjugated syntheticpeptide between 117-145 amino acids fromthe Central region of human PGK1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBSwith 0.09% (W/V) sodium azide. This antibodyis prepared by Saturated Ammonium Sulfate(SAS) precipitation followed by dialysisagainst PBS.
Sequence	117-145
Applicable Applications for anti-PGK1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Function	Catalyzes one of the two ATP producingreactions in the glycolytic pathway via thereversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate(PubMed: , PubMed:7391028). Inaddition to its role as a glycolytic enzyme, itseems that PGK-1 acts as a polymerase alphacofactor protein (primer recognition protein)(PubMed:). May play arole in sperm motility (PubMed:).
Cellular Location	Cytoplasm.
Tissue Location	Mainly expressed in spermatogonia. Localizedon the principle piece in the sperm (at proteinlevel). Expression significantly decreased inthe testis of elderly men
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

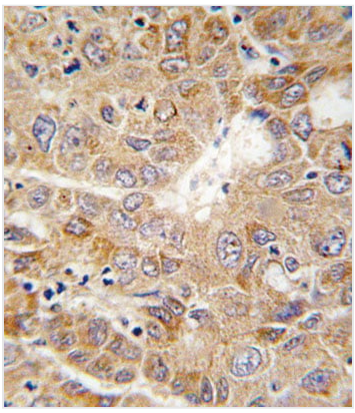
IMAGES



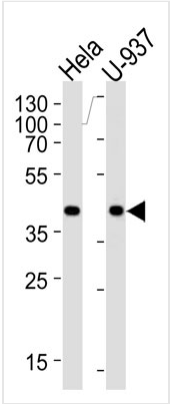
FCM/FACS (Flow Cytometry)
PGK1 Antibody (Center) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



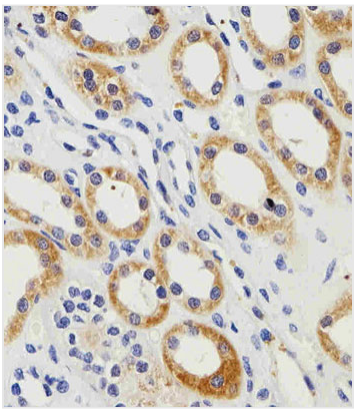
IF (Immunofluorescence)
Confocal immunofluorescent analysis of PGK1 Antibody (Center) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PGK1 antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysates from Hela, U-937 cell line (from left to right), using PGK1 Antibody (G132). AAA287052 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded H. kidney section using PGK1 Antibody (Center). AAA287052 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-PGK1 antibody	Also known as ATP:3-phosphoglycerate 1-phosphotransferase (EC 2.7.2.3), this major enzyme in glycolysis catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate, generating one molecule of ATP. New blood vessel formation or angiogenesis is critical for tumor expansion and metastasis. Lay et al. (2000) showed that the plasmin reductase isolated from conditioned medium of fibrosarcoma cells is the glycolytic enzyme phosphoglycerate kinase. They concluded that phosphoglycerate kinase not only functions in glycolysis but is secreted by tumor cells and participates in the angiogenic process as a disulfide reductase.
Product Categories/Family for anti-PGK1 antibody	Crown Antibodies; Cancer; Cardiovascular; Metabolism; Signal Transduction
References	Lay, A. J., et al. Nature 408: 869-873 (2000).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505763
NCBI GeneID	5230
NCBI Accession #	NP_000282.1
NCBI GenBank Nucleotide #	NM_000291.3
UniProt Accession #	P00558; Q5J7W1; Q6IBT6; Q8NI87; A8K4W6; B7Z7A9
NCBI Official Full Name	phosphoglycerate kinase 1
NCBI Official Synonym Full Names	phosphoglycerate kinase 1
NCBI Official Symbol	PGK1
NCBI Official Synonym Symbols	PGKA; MIG10; HEL-S-68p
NCBI Protein Information	phosphoglycerate kinase 1
UniProt Protein Name	Phosphoglycerate kinase 1
UniProt Gene Name	**PGK1**
UniProt Synonym Gene Names	PGKA; PRP 2
UniProt Entry Name	PGK1_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://www.aaabiotech.com/polyclonal/pgk1-antibody-flow-cytometry-western-blot-immunofluorescence-immunohistochemistry-elisa/287052