

## PGK1 Rabbit mAb

Catalog No: #48900

Package Size: #48900-1 50ul #48900-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

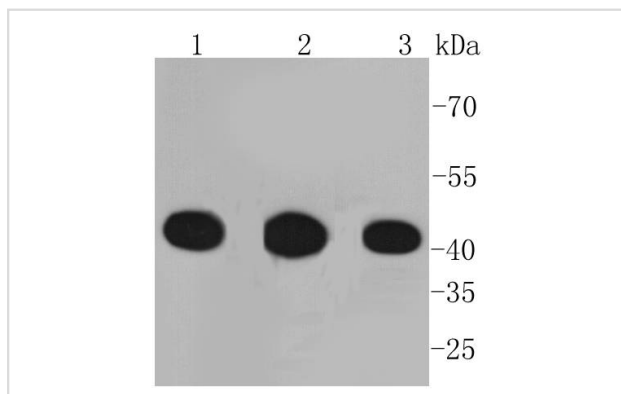
## Description

Product Name	PGK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST49-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Cell migration-inducing gene 10 protein antibody Epididymis secretory sperm binding protein Li 68p antibody HEL S 68p antibody MGC117307 antibody MGC8947 antibody MIG10 antibody pgk1 antibody PGK1_HUMAN antibody PGKA antibody Phosphoglycerate kinase 1 antibody Primer recognition protein 2 antibody PRP 2 antibody
Accession No.	Swiss-Prot#:P00558
Uniprot	P00558
GeneID	5230;
Calculated MW	45 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

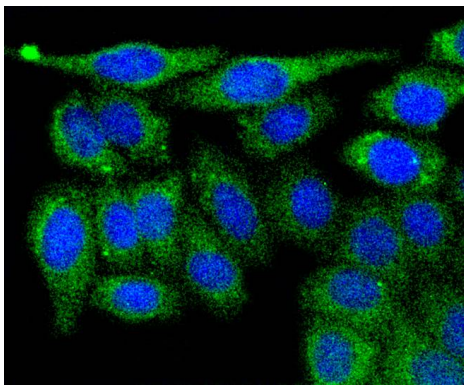
## Application Details

WB: 1:1,000-5,000 ICC: 1:50-1:200 FC: 1:50-1:100

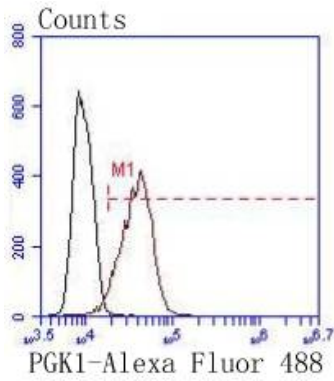
## Images



Western blot analysis of PGK1 on different lysates using anti-PGK1 antibody at 1/1,000 dilution. Positive control:  
 Lane 1: Hela  
 Lane 2: HepG2  
 Lane 3: MCF-7



ICC staining PGK1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with PGK1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

Phosphoglycerate kinases 1/2 (PGK1/2, ATP:3-phospho-D-glycerate 1-phosphotransferase, EC 2.7.2.3) are somatically expressed, glycolytic enzymes that catalyze the transfer of a phosphoryl group from the acyl phosphate of 1,3-bisphosphoglycerate to ADP, thereby forming ATP and 3-phosphoglycerate. The human PGK gene is interrupted by 10 introns and spans 23 kilobases, and is X chromosome-linked at position Xq21.1, a region implicated in prostate cancer, androgen insensitivity, perineal hypospadias, and other genetic abnormalities. In addition to influencing glycolysis, the PGK1 is secreted by tumor cells and contributes to proliferative angiogenic processes as a disulfide reductase. PGK1 mediated reduction of disulphide bonds in the serine proteinase plasmin initiates the release of the tumor blood vessel inhibitor angiostatin, an event that is critical for blood vessel formation or angiogenesis in tumor expansion and metastasis.

## References

Note: This product is for in vitro research use only