

For Research Use Only

# PGK1 Monoclonal antibody

Catalog Number: 68035-1-Ig **1 Publications**



## Basic Information

Catalog Number: 68035-1-Ig	GenBank Accession Number: BC103752	Purification Method: Protein G purification
Size: 1000 ug/ml	GeneID (NCBI): 5230	CloneNo.: 1B2F3
Source: Mouse	UNIPROT ID: P00558	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: phosphoglycerate kinase 1	
Immunogen Catalog Number: AG12099	Calculated MW: 417 aa, 45 kDa Observed MW: 40-45 kDa	

## Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB	WB : A431 cells, NCCIT cells, PC-3 cells, LNCaP cells, HeLa cells, Jurkat cells, human platelet tissue, rat testis tissue, mouse testis tissue
Species Specificity: human, mouse, rat	IHC : human liver cancer tissue, mouse kidney tissue, rat kidney tissue, rat testis tissue
Cited Species: human	IF/ICC : A431 cells, HepG2 cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PGK1, also known as PGKA, belongs to the phosphoglycerate kinase family. PGK1 is the first ATP-generating enzyme in glycolysis, which catalyzes the conversion of 1,3-diphosphoglycerate (1,3-BPG) to 3-phosphoglycerate (3-PG) and produces one molecule of ATP. PGK1 has other functions besides regulating glycolytic metabolism, including mediating autophagy initiation, DNA replication and repair in mammal cell nuclei. PGK1 has 2 isoforms with the molecular mass of 41 and 45 kDa (PMID: 31815035, PMID: 31911580).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenke Bai	38043497	Transl Oncol	WB

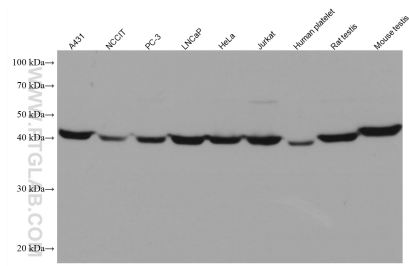
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

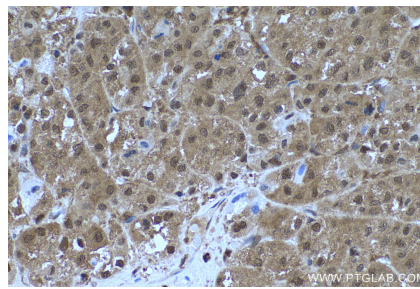
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

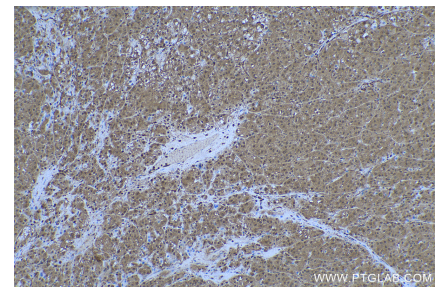
## Selected Validation Data



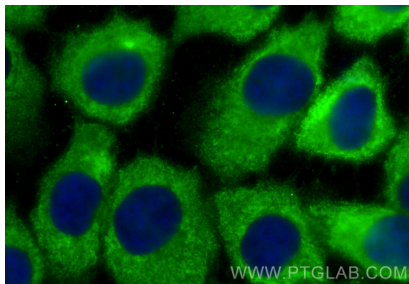
A431 cells were subjected to SDS PAGE followed by western blot with 68035-1-Ig (PGK1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68035-1-Ig (PGK1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68035-1-Ig (PGK1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using PGK1 antibody (68035-1-Ig, Clone: 1B2F3) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).