

For Research Use Only

# PGK1 Monoclonal antibody, PBS Only

Catalog Number: 68035-1-PBS



## Basic Information

<b>Catalog Number:</b> 68035-1-PBS	<b>GenBank Accession Number:</b> BC103752	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5230	<b>CloneNo.:</b> 1B2F3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00558	
<b>Isotype:</b> IgG1	<b>Full Name:</b> phosphoglycerate kinase 1	
<b>Immunogen Catalog Number:</b> AG12099	<b>Calculated MW:</b> 417 aa, 45 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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).

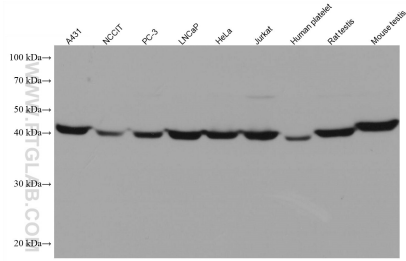
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

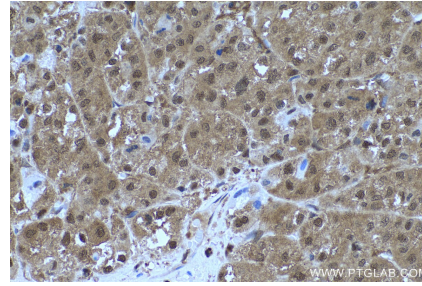
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

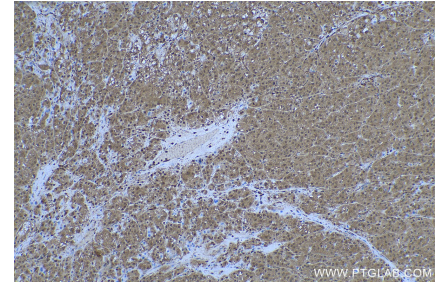
## Selected Validation Data



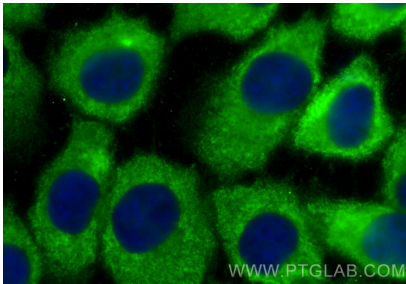
A431 cells were subjected to SDS PAGE followed by western blot with 68035-1-Ig (PGK1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68035-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68035-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68035-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 68035-1-PBS in a different storage buffer formulation.