

For Research Use Only

# PGK1 Polyclonal antibody

Catalog Number: 17811-1-AP

Featured Product

94 Publications



## Basic Information

### Catalog Number:

17811-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12119

### GenBank Accession Number:

BC103752

### GeneID (NCBI):

5230

### UNIPROT ID:

P00558

### Full Name:

phosphoglycerate kinase 1

### Calculated MW:

417 aa, 45 kDa

### Observed MW:

40-45 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:1000-1:4000

IF/ICC: 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A431 cells, HepG2 cells, HEK-293 cells, HeLa cells, PC-12 cells, PC-3 cells, NIH/3T3 cells, mouse liver tissue, rat liver tissue

**IP:** SW 1990 cells, HeLa cells

**IHC:** human colon cancer tissue,

**IF/ICC:** A431 cells, HepG2 cells

## Background Information

The PGK1 gene encodes phosphoglycerate kinase-1, also known as ATP:3-phosphoglycerate 1-phosphotransferase (EC 2.7.2.3), which catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP. It belongs to the phosphoglycerate kinase family and defects in PGK1 are the cause of phosphoglycerate kinase 1 deficiency (PGK1D). PGK1 has 2 isoforms with the molecular mass of 45 kDa and 41 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoduan Li	34510316	Cell Biol Toxicol	WB, IHC
Zheyang Min	33043000	Front Cell Dev Biol	WB, IP
Xiaodong Zhang	30180863	J Exp Clin Cancer Res	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

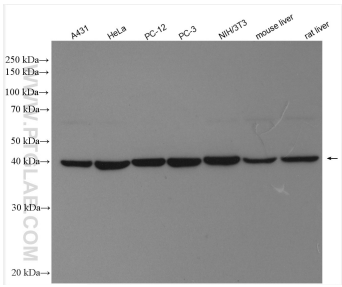
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

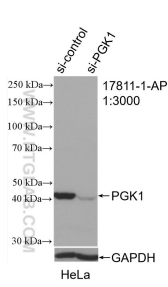
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

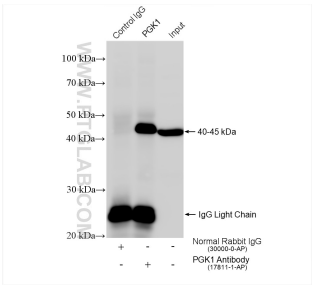
Selected Validation Data



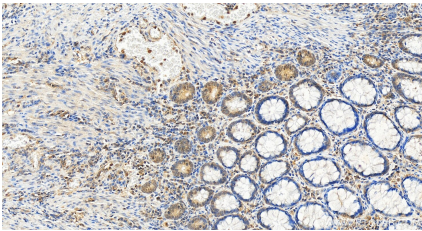
Various lysates were subjected to SDS PAGE followed by western blot with 17811-1-AP (PGK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



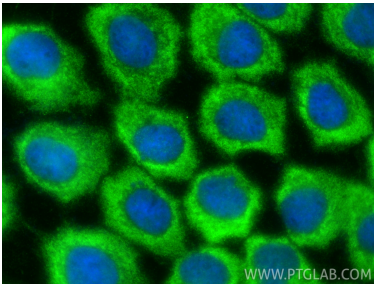
WB result of PGK1 antibody (17811-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PGK1 transfected HeLa cells.



IP result of anti-PGK1 (IP:17811-1-AP, 4ug; Detection:17811-1-AP 1:2000) with SW 1990 cells lysate 2800 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17811-1-AP (PGK1 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using PGK1 antibody (17811-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).