

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: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5230	CloneNo.: 1B2F3
Source: Mouse	UNIPROT ID: P00558	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
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, ELISA

Cited Applications:
WB

Species Specificity:
Human, Mouse, Rat

Cited Species:
human

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, NCCIT cells, PC-3 cells, LNCaP cells, HeLa cells, Jurkat cells, human platelet tissue, rat testis tissue, mouse testis tissue

IHC : human liver cancer tissue, mouse kidney tissue, rat kidney tissue, rat testis tissue

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

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

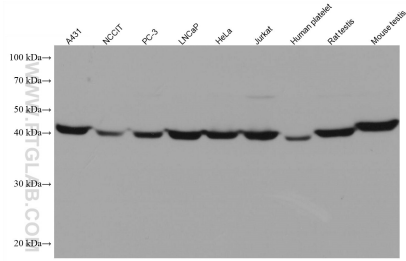
For technical support and original validation data for this product please contact:

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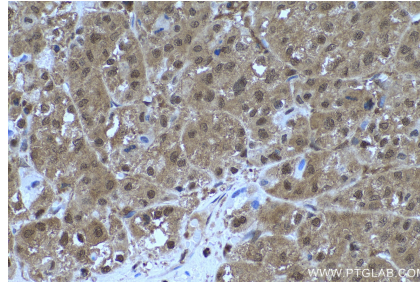
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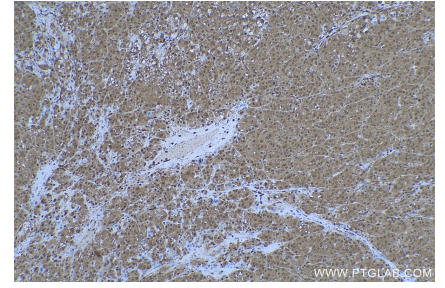
Selected Validation Data



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).