

## PGAM1 Monoclonal antibody

Catalog Number: 67470-1-Ig

Featured Product

2 Publications

## Basic Information

<b>Catalog Number:</b> 67470-1-Ig	<b>GenBank Accession Number:</b> BC011678	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5223	<b>CloneNo.:</b> 2H2A9
<b>Source:</b> Mouse	<b>Full Name:</b> phosphoglycerate mutase 1 (brain)	<b>Recommended Dilutions:</b> WB 1:10000-1:50000 IHC 1:200-1:1000 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 254 aa, 29 kDa	
<b>Immunogen Catalog Number:</b> AG9250	<b>Observed MW:</b> 29 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells
<b>Species Specificity:</b> Human, Mouse, Rat	<b>IHC :</b> human liver cancer tissue,
<b>Cited Species:</b> human, mouse	<b>IF :</b> 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

PGAM1(phosphoglycerate mutase 1) is also named as PGAMA,PGAM-B and belongs to the phosphoglycerate mutase family. Phosphoglycerate mutase is widely distributed in mammalian tissues where it catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The homodimer PGAM1 is expressed mainly in liver, kidney, brain and overexpressed in a variety of human cancers, including breast carcinoma, colorectal cancer, lung cancer, prostate cancer, oral squamous cell carcinoma, esophageal squamous cell carcinomas and also associated with certain virus infection. PGAM1 could be developed as a useful diagnostic biomarker, as well as a potential therapeutic target for hepatocellular carcinoma (PMID:20403181). This antibody may also recognize PGAM2 and PGAM4 due to the high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wei Zhang	34689761	J Nanobiotechnology	WB,IHC
Xinlu Liu	29386088	Oncol Res	IF

## 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.

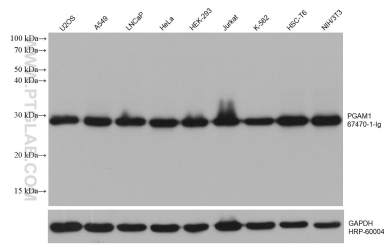
Aliquoting is unnecessary for -20°C storage

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

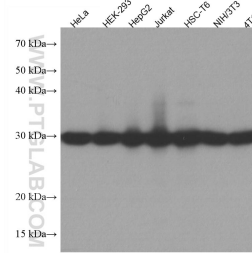
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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

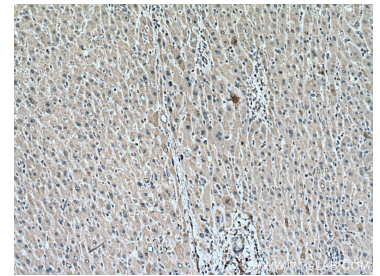
## Selected Validation Data



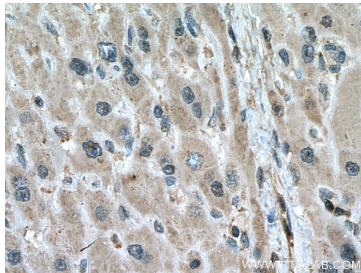
U2OS cells were subjected to SDS PAGE followed by western blot with 67470-1-Ig (PGAM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



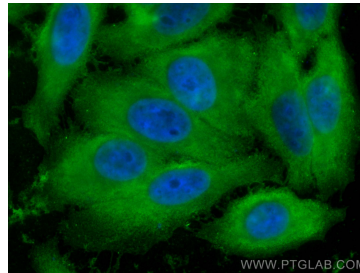
Various lysates were subjected to SDS PAGE followed by western blot with 67470-1-Ig (PGAM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67470-1-Ig (PGAM1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67470-1-Ig (PGAM1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PGAM1 antibody (67470-1-Ig, Clone: 2H2A9) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).