

For Research Use Only

PGAM1 Monoclonal antibody

Catalog Number: 67470-1-Ig

Featured Product

2 Publications



Basic Information

Catalog Number:

67470-1-Ig

Size:

150ul, Concentration: 500 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG9250

GenBank Accession Number:

BC011678

GeneID (NCBI):

5223

UNIPROT ID:

P18669

Full Name:

phosphoglycerate mutase 1 (brain)

Calculated MW:

254 aa, 29 kDa

Observed MW:

29 kDa

Purification Method:

Protein G purification

CloneNo.:

2H2A9

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:200-1:1000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

Human, Mouse, Rat

Cited Species:

human, mouse

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: U2OS cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, A549 cells, LNCaP cells, K-562 cells

IHC: human liver cancer tissue,

IF/ICC: HepG2 cells,

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

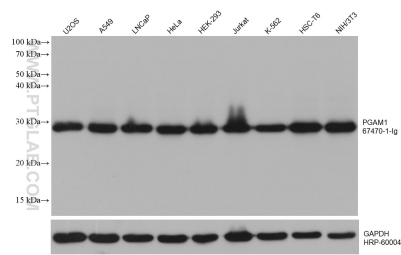
For technical support and original validation data for this product please contact:

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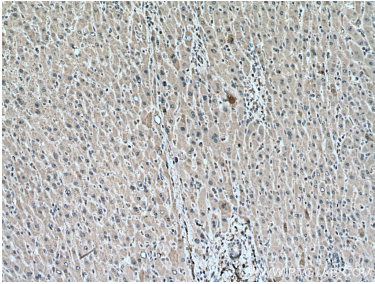
E: proteintech@ptglab.com
W: ptglab.com

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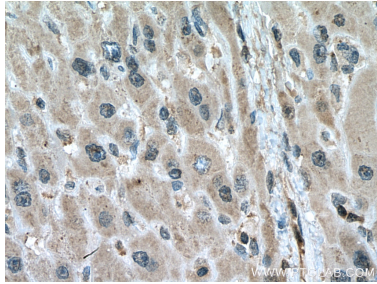
Selected Validation Data



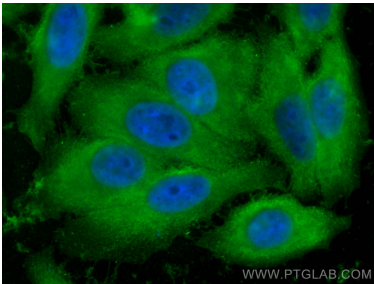
U2OS cells were subjected to SDS PAGE followed by western blot with 67470-1-Ig (PGAM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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).