

For Research Use Only

PGK1 Polyclonal antibody

Catalog Number: 17811-1-AP

Featured Product

38 Publications



Basic Information

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| Catalog Number: 17811-1-AP | GenBank Accession Number: BC103752 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 550 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 5230 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:20-1:200 |
| Source: Rabbit | Full Name: phosphoglycerate kinase 1 | |
| Isotype: IgG | Calculated MW: 417 aa, 45 kDa | |
| Immunogen Catalog Number: AG12119 | Observed MW: 40-45 kDa | |

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

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: A431 cells, HEK-293 cells, human stomach tissue, mouse brain tissue, HepG2 cells, rat liver tissue, mouse liver tissue, HeLa cells, NIH/3T3 cells, PC-12 cells, PC-3 cells

IHC: human hepatocirrhosis tissue,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

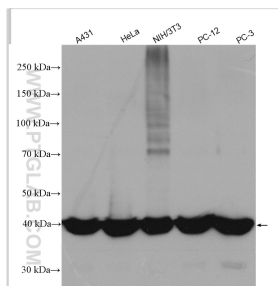
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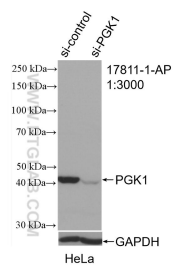
E: proteintech@ptglab.com
W: ptglab.com

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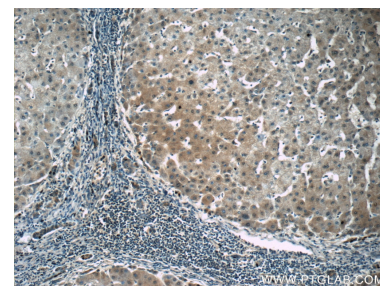
Selected Validation Data



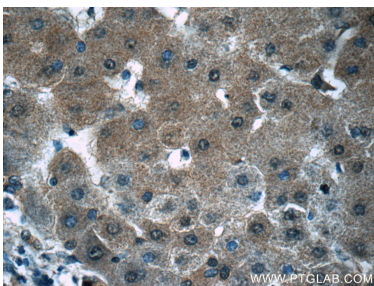
Various lysates were subjected to SDS PAGE followed by western blot with 17811-1-AP (PGK1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 17811-1-AP (PGK1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 17811-1-AP (PGK1 Antibody) at dilution of 1:50 (under 40x lens).