

For Research Use Only

PGAM1 Polyclonal antibody

Catalog Number: 16126-1-AP

Featured Product

23 Publications



Basic Information

Catalog Number: 16126-1-AP	GenBank Accession Number: BC011678	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 µg/ml by Nanodrop;	GeneID (NCBI): 5223	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:20-1:200 IF 1:20-1:200
Source: Rabbit	Full Name: phosphoglycerate mutase 1 (brain)	
Isotype: IgG	Calculated MW: 254 aa, 29 kDa	
Immunogen Catalog Number: AG9110	Observed MW: 29 kDa	

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
CoIP, IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Positive Controls:

WB: A549 cells, HEK-293 cells, NIH/3T3 cells, Raji cells, HeLa cells, HEK-293T cells, Jurkat cells, CHO cells

IHC: human brain tissue, human breast cancer tissue

IF: A549 cells,

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

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
Rongkun Li	34836938	Cell Death Dis	WB
Longzhu Ke	36335636	Cell Biol Int	WB
Yuguo Li	35502531	Bioengineered	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

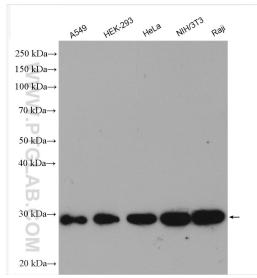
For technical support and original validation data for this product please contact:

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

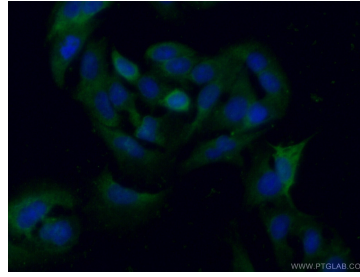
E: proteintech@ptglab.com
W: ptglab.com

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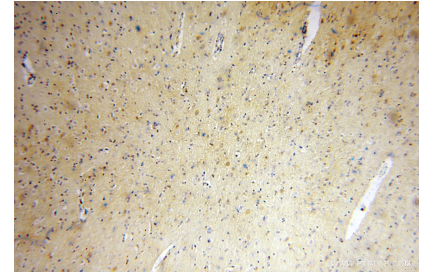
Selected Validation Data



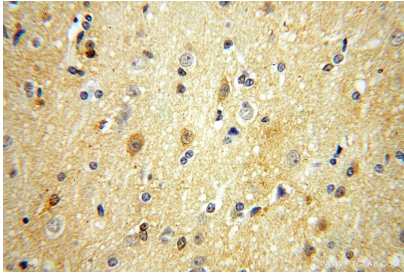
Various lysates were subjected to SDS PAGE followed by western blot with 16126-1-AP (PGAM1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 16126-1-AP (PGAM1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human brain using 16126-1-AP (PGAM1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 16126-1-AP (PGAM1 antibody) at dilution of 1:50 (under 40x lens).