

For Research Use Only

PYGB Polyclonal antibody

Catalog Number: 12075-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:

12075-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2732

GenBank Accession Number:

BC017045

GeneID (NCBI):

5834

UNIPROT ID:

P11216

Full Name:

phosphorylase, glycogen; brain

Calculated MW:

843 aa, 97 kDa

Observed MW:

97 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 : human brain tissue, MCF-7 cells, rat brain tissue

IP : mouse brain tissue,

IHC : human stomach cancer tissue, human ovary tumor tissue, mouse heart tissue, rat brain tissue

Background Information

The three main subtypes of GP found in human tissues-brain-type glycogen phosphorylase (PYGB), liver-type glycogen phosphorylase (PYGL), and muscle-type glycogen phosphorylase (PYGM)-differ in function, structure, and tissue distribution. PYGB (Brain-type glycogen phosphorylase) is a glycogen phosphorylase and is primarily localized in adult brain tissues and embryo liver tissues, whose function is to provide energy to organisms (PMID: 30106110). PYGB has been observed to be overexpressed in many types of cancer and tumor cell lines and is expected to be a novel target for the diagnosis and treatment of various cancers (PMID: 38334681).

Notable Publications

Author	Pubmed ID	Journal	Application
Monika Tadi	26513352	PLoS One	WB
Scott P Allen	31647549	Brain	WB
Yang Zhou	31627092	Biomed Pharmacother	WB,IHC

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

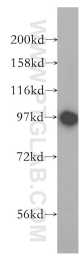
For technical support and original validation data for this product please contact:

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

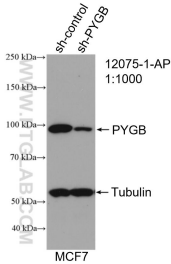
E: proteintech@ptglab.com
W: ptglab.com

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

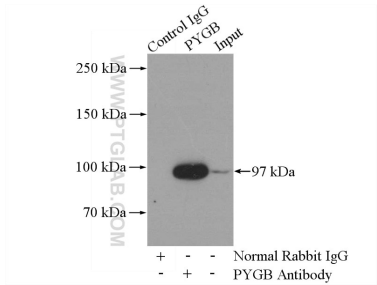
Selected Validation Data



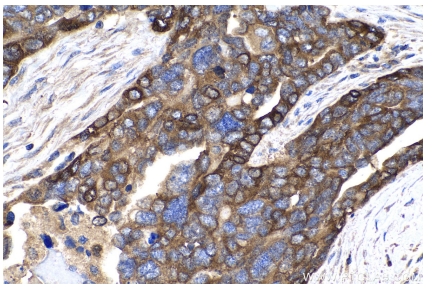
human brain tissue were subjected to SDS PAGE followed by western blot with 12075-1-AP (PYGB antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



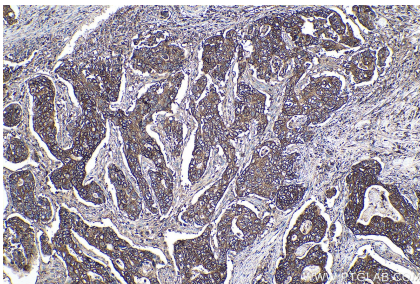
WB result of PYGB antibody (12075-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PYGB transfected MCF-7 cells.



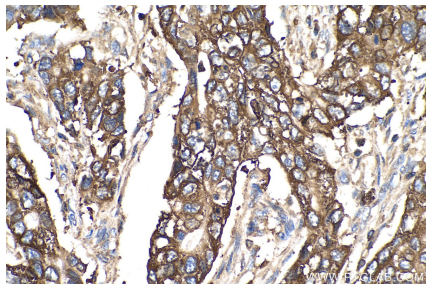
IP result of anti-PYGB (IP:12075-1-AP, 4ug; Detection:12075-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 12075-1-AP (PYGB antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12075-1-AP (PYGB antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12075-1-AP (PYGB antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).