For Research Use Only

PYGB Polyclonal antibody

Catalog Number:12075-1-AP Featured Product 18 Publications

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Basic Information

Catalog Number:
12075-1-AP

Concentration:
300 ug/ml

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

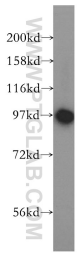
Author	Pubmed ID	Journal	Application
Monika Tadi	26513352	PLoS One	WB
Scott P Allen	31647549	Brain	WB
Yang Zhou	31627092	Biomed Pharmacother	WB,IHC

Storage

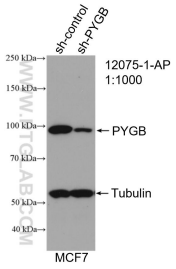
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

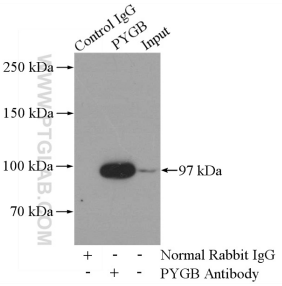
Selected Validation Data



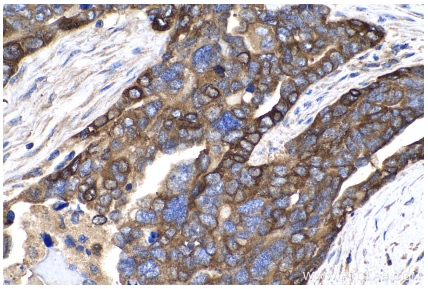
human brain tissue were subjected to SDS PAGE followed by western blot with 12075-1-AP (PYGB antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



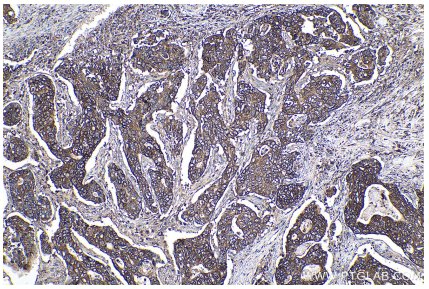
WB result of PYGB antibody (12075-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PYGB transfected MCF-7 cells.



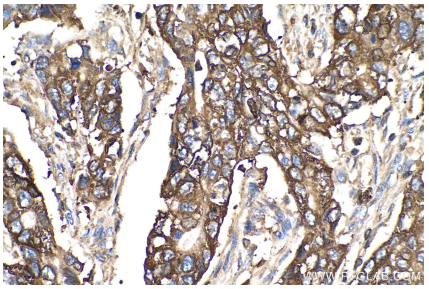
IP result of anti-PYGB (IP:12075-1-AP, 4ug; Detection:12075-1-AP 1:500) with mouse brain tissue lysate 4000ug.



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).