

For Research Use Only

PGP Polyclonal antibody

Catalog Number: 25081-1-AP

9 Publications



Basic Information

Catalog Number:

25081-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18623

GenBank Accession Number:

BC157035

GeneID (NCBI):

283871

UNIPROT ID:

A6NDG6

Full Name:

phosphoglycolate phosphatase

Calculated MW:

321 aa, 34 kDa

Observed MW:

34 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, rat

Positive Controls:

WB : HepG2 cells, mouse heart tissue, K-562 cells, SH-SY5Y cells, Y79 cells

IP : Y79 cells,

IHC : human tonsillitis tissue, human heart tissue, human skeletal muscle tissue

IF/ICC : MCF-7 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

PGP(phosphoglycolate phosphatase) belongs to the HAD-like hydrolase superfamily. It is an essential intermediate in the biosynthetic pathway of cardiolipin and a mitochondrial-specific phospholipid regulating the membrane integrity and activities of the organelle. PGP catalyzes the formation of phosphatidylglycerol from phosphatidylglycerophosphate.

Notable Publications

Author	Pubmed ID	Journal	Application
Changduo Wang	36369077	J Nanobiotechnology	WB,IF
Lingyun Zhang	34322485	Front Cell Dev Biol	IHC
Zhikun Yang	36645980	Eur J Med Chem	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

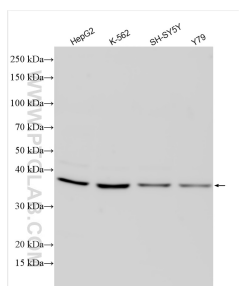
For technical support and original validation data for this product please contact:

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

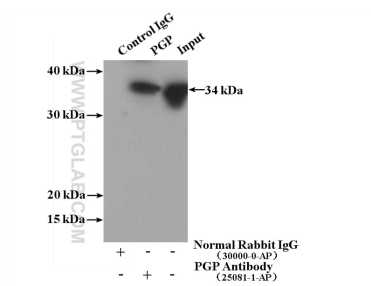
E: proteintech@ptglab.com
W: ptglab.com

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

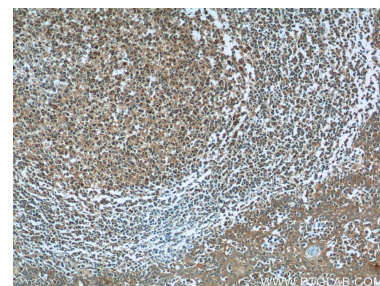
Selected Validation Data



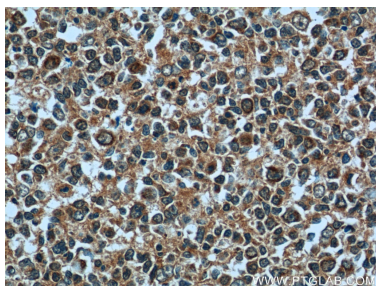
Various lysates were subjected to SDS PAGE followed by western blot with 25081-1-AP (PGP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



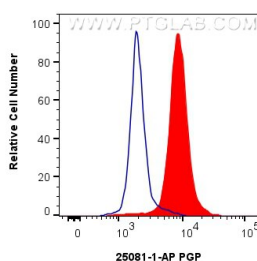
IP result of anti-PGP (IP:25081-1-AP, 4ug; Detection:25081-1-AP 1:600) with Y79 cells lysate 1920ug.



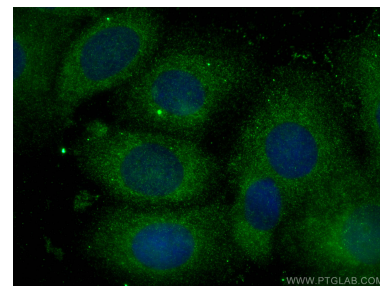
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25081-1-AP (PGP Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25081-1-AP (PGP Antibody) at dilution of 1:50 (under 40x lens).



1×10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human PGP (25081-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using PGP antibody (25081-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).