

For Research Use Only

# PGP Polyclonal antibody

Catalog Number: 25081-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 25081-1-AP	<b>GenBank Accession Number:</b> BC157035	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 450 µg/ml by Nanodrop and 193 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 283871	<b>Recommended Dilutions:</b> 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 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> phosphoglycolate phosphatase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 321 aa, 34 kDa	
<b>Immunogen Catalog Number:</b> AG18623	<b>Observed MW:</b> 34 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB:</b> HepG2 cells, mouse heart tissue, K-562 cells, SH-SY5Y cells, Y79 cells
<b>Species Specificity:</b> human, mouse	<b>IP:</b> Y79 cells,
<b>Cited Species:</b> human, rat	<b>IHC:</b> human tonsillitis tissue, human heart tissue, human skeletal muscle tissue
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF:</b> MCF-7 cells,

## 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

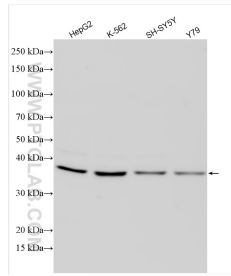
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

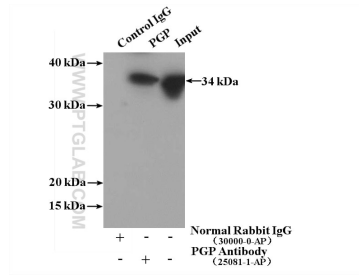
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

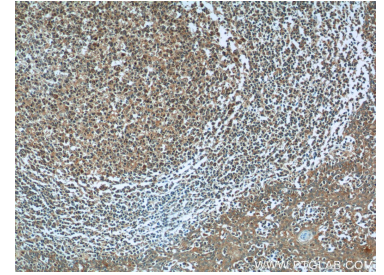
## Selected Validation Data



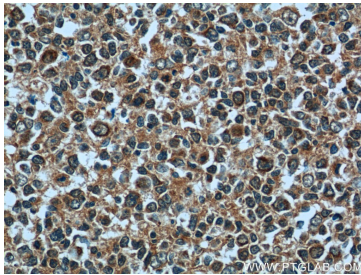
Various lysates were subjected to SDS PAGE followed by western blot with 25081-1-AP (PGP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



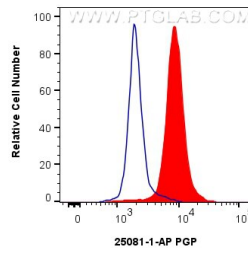
IP Result of anti-PGP (IP:25081-1-AP, 4ug; Detection:25081-1-AP 1:600) with Y79 cells lysate 1920ug.



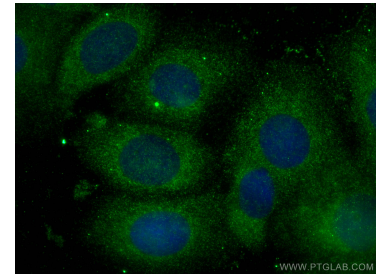
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25081-1-AP (PGP Antibody) at dilution of 1:50 (under 10x lens).



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



$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human PGP (25081-1-AP) and CoraLite®488-Conjugated AffiniPure 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 AffiniPure Goat Anti-Rabbit IgG(H+L).