## For Research Use Only

## PSPH Polyclonal antibody

Catalog Number:14513-1-AP

Featured Product

**26 Publications** 



**Basic Information** 

Catalog Number:

14513-1-AP

Size:

150ul , Concentration: 333 µg/ml by 5723 Bradford method using BSA as the

standard;

Source: Rabbit Isotype:

Immunogen Catalog Number:

AG5972

IgG

GenBank Accession Number:

BC063614 GeneID (NCBI):

5723

Full Name:

phosphoserine phosphatase

Calculated MW: 25 kDa Observed MW:

25-28 kDa

Positive Controls:

WB: A375 cells, rat liver tissue, U-87 MG cells, HL-60

**Purification Method:** 

WB 1:500-1:3000

protein lysate

IHC 1:50-1:500

IF 1:50-1:500

Antigen affinity purification

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

Recommended Dilutions:

cells, MCF-7 cells, SK-BR-3 cells

IP: HL-60 cells,

IHC: human spleen tissue,

IF: HepG2 cells,

**Applications** 

Tested Applications: IF, IHC, IP, WB, ELISA Cited Applications: IHC, IP, WB

Species Specificity: human, mouse, rat Cited Species:

human, mouse

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** 

PSPH (phosphoserine phosphatase) is an enzyme, which is involved in the process of L-serine biosynthesis. PSPH mainly plays role in multiple aspects of cell behaviours such as proliferation and differentiation by producing precursors for the biosynthesis of diverse compounds including neurotransmitters, glycolipids and thymidine (PMID: 11237721, PMID: 19963421). Additionally, augmented PSPH level is correlated with the prognosis in multiple cancers including cutaneous squamous cell carcinoma (PMID: 21726982), breast cancer (PMID: 28931725), non-small cell lung cancer (PMID: 30662358), colorectal cancer (PMID: 24146633) and hepatocellular carcinoma (PMID: 25793315).

## **Notable Publications**

Author	Pubmed ID	Journal	Application
Shengya Tian	31562192	Life Sci Alliance	WB
Ji Wang	34544857	Proc Natl Acad Sci U S A	WB
Xin Liu	34496888	Mol Cancer	WB,IHC

Storage

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffe

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

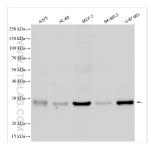
\*\*\* 20ul sizes contain 0.1% BSA

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

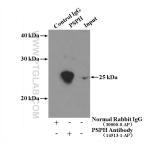
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

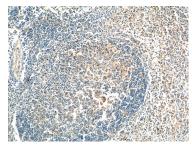
## **Selected Validation Data**



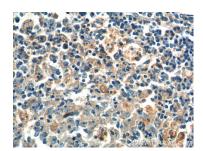
Various lysates were subjected to SDS PAGE followed by western blot with 14513-1-AP (PSPH antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



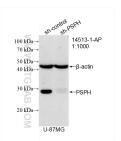
IP Result of anti-PSPH (IP:14513-1-AP, 4ug; Detection:14513-1-AP 1:300) with HL-60 cells lysate 3040ug.



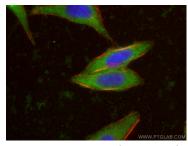
Immunohistochemical analysis of paraffinembedded human spleen tissue slide using 14513-1-AP (PSPH Antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human spleen tissue slide using 14513-1-AP (PSPH Antibody) at dilution of 1:100 (under 40x lens).



WB result of PSPH antibody (14513-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSPH transfected U-87 MG cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PSPH antibody (14513-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).