For Research Use Only

PSPH Polyclonal antibody

Catalog Number:14513-1-AP Featured Product 28 Publications

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Basic Information

Catalog Number:
14513-1-AP

Size:
150ul , Concentration: 333 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5972

GenBank Accession Number:
BC063614

GeneID (NCBI):
5723

UNIPROT ID:
P78330

Full Name:
phosphoserine phosphatase

Calculated MW:
25 kDa

Observed MW:
25-28 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IP

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

Positive Controls:

WB : A375 cells, rat liver tissue, U-87 MG cells, HL-60 cells, MCF-7 cells, SK-BR-3 cells

IP : HL-60 cells,

IHC : human spleen tissue,

IF/ICC : HepG2 cells,

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

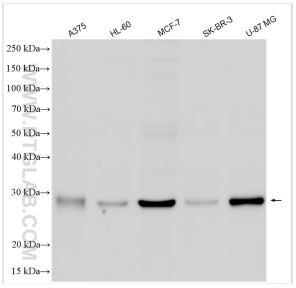
Storage

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

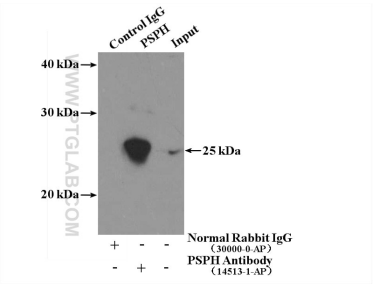
*** 20ul sizes contain 0.1% BSA

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

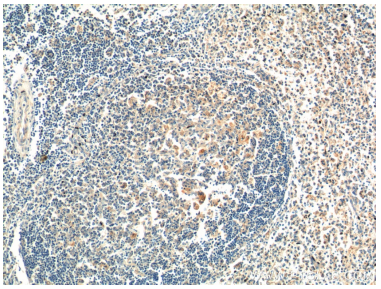
Selected Validation Data



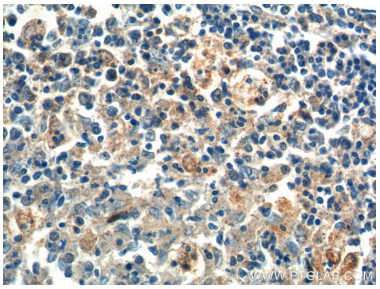
Various lysates were subjected to SDS PAGE followed by western blot with 14513-1-AP (PSPH antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



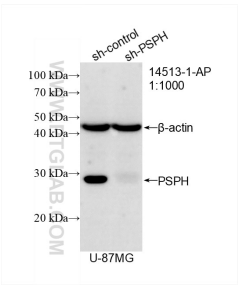
IP result of anti-PSPH (IP:14513-1-AP, 4ug; Detection:14513-1-AP 1:300) with HL-60 cells lysate 3040ug.



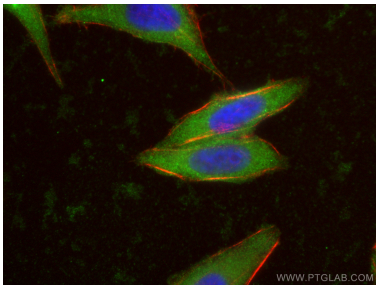
Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 14513-1-AP (PSPH Antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded 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 Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).