

PSPH Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20207A

Specification

PSPH Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P78330
Other Accession	Q5M819 , Q99LS3 , NP_004568.2
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	25008
Antigen Region	7-36

PSPH Antibody (N-term) - Additional Information

Gene ID 5723

Other Names

Phosphoserine phosphatase, PSP, PSPase, L-3-phosphoserine phosphatase, O-phosphoserine phosphohydrolase, PSPH

Target/Specificity

This PSPH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human PSPH.

Dilution

WB~~1:8000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PSPH Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PSPH Antibody (N-term) - Protein Information

Name PSPH ([HGNC:9577](#))

Function Catalyzes the last irreversible step in the biosynthesis of L-serine from carbohydrates, the dephosphorylation of O-phospho-L-serine to L-serine (PubMed:[12213811](#), PubMed:[14673469](#), PubMed:[15291819](#), PubMed:[25080166](#), PubMed:[9222972](#)). L-serine can then be used in protein synthesis, to produce other amino acids, in nucleotide metabolism or in glutathione synthesis, or can be racemized to D-serine, a neuromodulator (PubMed:[14673469](#)). May also act on O-phospho-D-serine (Probable).

Cellular Location

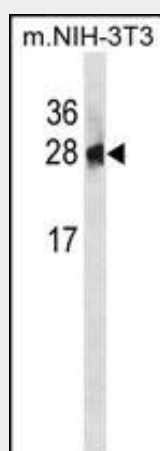
Cytoplasm, cytosol.

PSPH Antibody (N-term) - Protocols

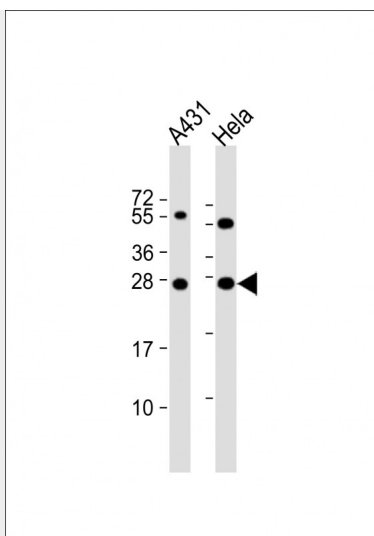
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PSPH Antibody (N-term) - Images



PSPH Antibody (N-term) (Cat. #AP20207a) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the PSPH antibody detected the PSPH protein (arrow).



All lanes : Anti-PSPH Antibody (N-term) at 1:8000 dilution Lane 1: A431 whole cell lysate Lane 2: HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

PSPH Antibody (N-term) - Background

The protein encoded by this gene belongs to a subfamily of the phosphotransferases. This encoded enzyme is responsible for the third and last step in L-serine formation. It catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. Deficiency of this protein is thought to be linked to Williams syndrome.

PSPH Antibody (N-term) - References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Peeraer, Y., et al. Eur. J. Biochem. 271(16):3421-3427(2004)
Veiga-da-Cunha, M., et al. Eur. J. Hum. Genet. 12(2):163-166(2004)
Peeraer, Y., et al. Acta Crystallogr. D Biol. Crystallogr. 59 (PT 6), 971-977 (2003) :