

**PSPH Antibody (aa1-175)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16887****Specification**

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**PSPH Antibody (aa1-175) - Product Information**

|                   |                                      |
|-------------------|--------------------------------------|
| Application       | WB, IHC-P, ICC                       |
| Primary Accession | <a href="#">P78330</a>               |
| Other Accession   | <a href="#">5723</a>                 |
| Reactivity        | Human                                |
| Host              | Rabbit                               |
| Clonality         | Polyclonal                           |
| Isotype           | IgG                                  |
| Calculated MW     | 25008                                |
| Dilution          | WB~~1:1000<br>IHC-P~~N/A<br>ICC~~N/A |

**PSPH Antibody (aa1-175) - Additional Information****Gene ID** 5723**Other Names**

PSPH, L-3-phosphoserine phosphatase, Phosphoserine phosphatase, PSPase, PSP, PSPHD

**Target/Specificity**

Human PSPH

**Reconstitution & Storage**

0.1 M Tris-glycine, pH 7.0, 10% glycerol, 0.01% Thimerosal. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

**Precautions**

PSPH Antibody (aa1-175) is for research use only and not for use in diagnostic or therapeutic procedures.

**PSPH Antibody (aa1-175) - 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](http://www.uniprot.org/citations/12213811), PubMed:[14673469](http://www.uniprot.org/citations/14673469), PubMed:[15291819](http://www.uniprot.org/citations/15291819), PubMed:[25080166](http://www.uniprot.org/citations/25080166), PubMed:[9222972](http://www.uniprot.org/citations/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:<a href="http://www.uniprot.org/citations/14673469" target="\_blank">14673469</a>). May also act on O-phospho-D-serine (Probable).

**Cellular Location**

Cytoplasm, cytosol.

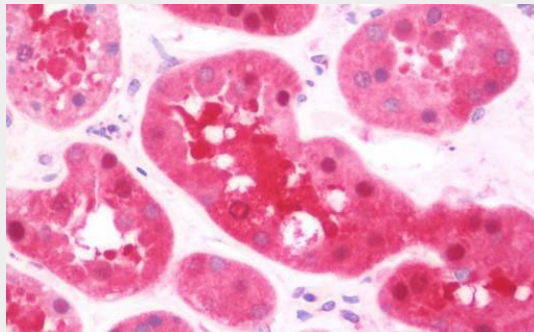
**Volume**

50 µl

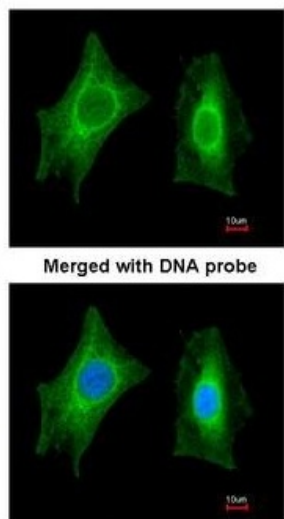
**PSPH Antibody (aa1-175) - Protocols**

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

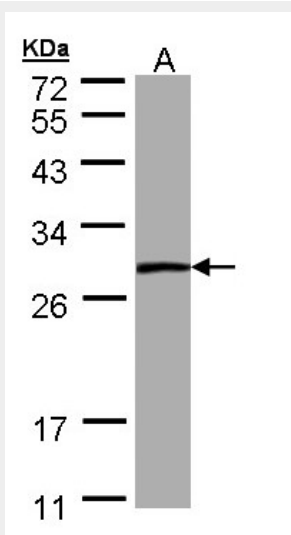
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PSPH Antibody (aa1-175) - Images**

Anti-PSPH / PSP antibody IHC staining of human kidney.



Immunofluorescence of paraformaldehyde-fixed HeLa using PSPH antibody at 1:200 dilution.



Sample (30 ug of whole cell lysate). A: A431. 12% SDS PAGE. PSPH antibody diluted at 1:1000

#### **PSPH Antibody (aa1-175) - Background**

Catalyzes the last step in the biosynthesis of serine from carbohydrates. The reaction mechanism proceeds via the formation of a phosphoryl-enzyme intermediates.

#### **PSPH Antibody (aa1-175) - References**

- Collet J.-F.,et al.FEBS Lett. 408:281-284(1997).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).
- Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).