

## **PSPH Antibody (monoclonal) (M02)**

Mouse monoclonal antibody raised against a full length recombinant PSPH.

Catalog # AT3476a

### **Specification**

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#### **PSPH Antibody (monoclonal) (M02) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P78330</a>
Other Accession	<a href="#">BC063614</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	25008

#### **PSPH Antibody (monoclonal) (M02) - Additional Information**

**Gene ID** 5723

##### **Other Names**

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

##### **Target/Specificity**

PSPH (AAH63614, 1 a.a. ~ 225 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

##### **Dilution**

WB~~1:500~1000

##### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

##### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

##### **Precautions**

PSPH Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

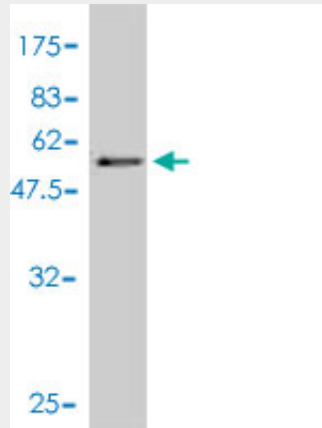
#### **PSPH Antibody (monoclonal) (M02) - Protocols**

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

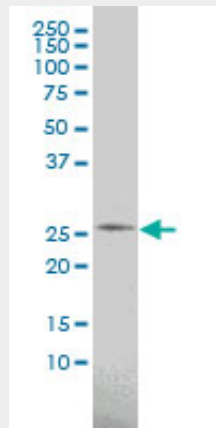
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

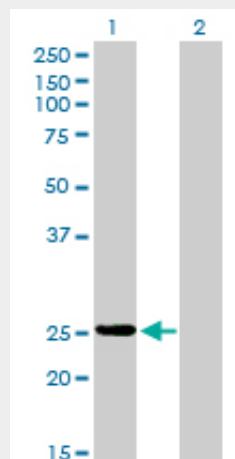
### PSPH Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (50.49 KDa) .

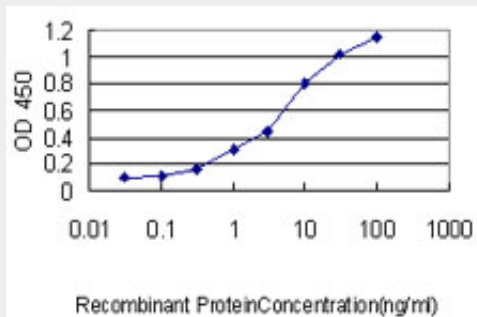


PSPH monoclonal antibody (M02), clone 2G9 Western Blot analysis of PSPH expression in K-562 (Cat # AT3476a )



Western Blot analysis of PSPH expression in transfected 293T cell line by PSPH monoclonal antibody (M02), clone 2G9.

Lane 1: PSPH transfected lysate(25 KDa).  
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PSPH is approximately 0.1ng/ml as a capture antibody.

### **PSPH Antibody (monoclonal) (M02) - 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 (monoclonal) (M02) - References**

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. *Mol Syst Biol*, 2007. PMID 17353931. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. *Genome Res*, 2004 Oct. PMID 15489334. How calcium inhibits the magnesium-dependent enzyme human phosphoserine phosphatase. Peeraer Y, et al. *Eur J Biochem*, 2004 Aug. PMID 15291819. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. *Nat Genet*, 2004 Jan. PMID 14702039. Mutations responsible for 3-phosphoserine phosphatase deficiency. Veiga-da-Cunha M, et al. *Eur J Hum Genet*, 2004 Feb. PMID 14673469.