

PSPH Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant PSPH.

Catalog # AT3476a

Specification

PSPH Antibody (monoclonal) (M02) - Product Information

| | |
|-------------------|--------------------------|
| Application | WB, E |
| Primary Accession | P78330 |
| Other Accession | BC063614 |
| 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.

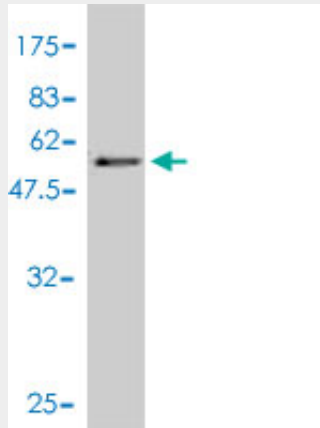
PSPH Antibody (monoclonal) (M02) - Protocols

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

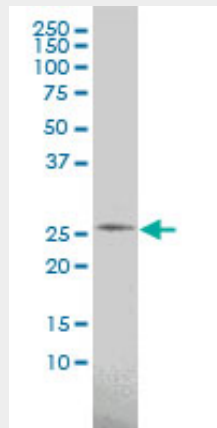
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

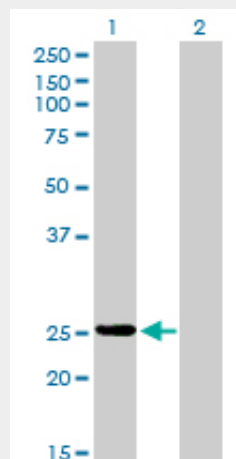
PSPH Antibody (monoclonal) (M02) - Images



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

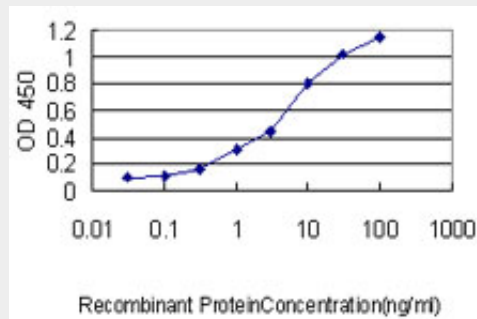


PSPH monoclonal antibody (M02), clone 2G9 Western Blot analysis of PSPH expression in K-562 (Cat # AT3476a)



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.