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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
E~~N/A

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

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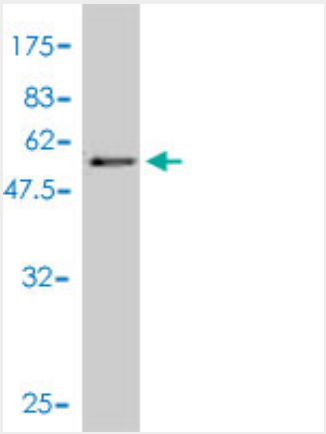
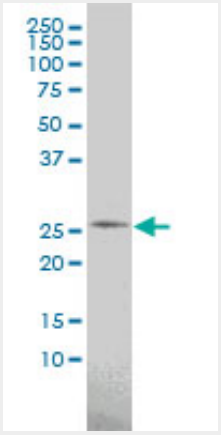
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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)

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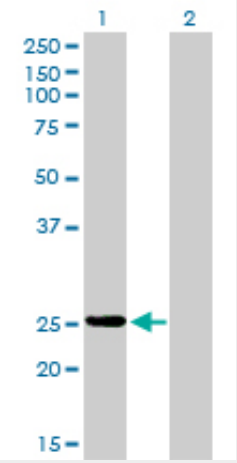
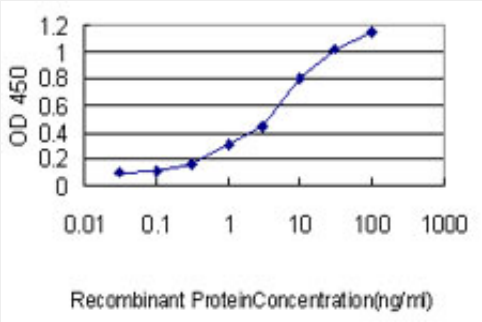


Western Blot analysis of PSPH expression in transfected 293T cell line by PSPH monoclonal antibody (M02), clone 2G9.

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.