



## Product Information Sheet

### Monoclonal Anti-Phosphoserine

**Catalogue No.** MA1084

**Lot No.** 08A12

**Clone:** PS-53

**Ig type:** mouse IgG1

**Size:** 100µg/vial

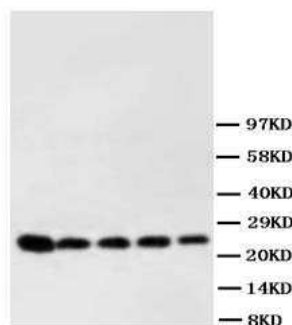
#### Specificity

Human, all kinds of animals

No cross reactivity with other proteins.

#### Recommended application

*Western blot*



Lane 1 : Rat liver tissue Lysate  
Lane 2 : Rat Ovarian tissue Lysate  
Lane 3 : MM453 Whole Cell Lysate  
Lane 4 : HeLa Whole Cell Lysate  
Lane 5 : Colo320 Whole Cell Lysate

#### Immunogen

Phosphoserine conjugated to Keyhole Limpet Hemocyanin (KLH).

#### Purification

Purified by the goat anti-mouse IgG affinity chromatography.

#### Application

*Western blot*

At 1-2µg/ml with the appropriate system to detect Phosphoserine in cells and tissues.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

#### Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

#### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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## **BACKGROUND**

Phosphoserine phosphatase fills an important role in the biosynthesis of serine from carbohydrates by catalyzing the last step, hydrolysis of O-phosphoserine. Phosphoserine phosphatase activity in lymphoblasts and fibroblasts was reduced to 25% of normal values. The human phosphoserine gene (PSP) is mapped to the pter-q22 region of chromosome 7.

## **REFERENCE**

1. Koch, G. A.; Eddy, R. L.; Haley, L. L.; Byers, M. G.; McAvoy, M.; Shows, T. B. : Assignment of the human phosphoserine gene (PSP) to the pter-q22 region of chromosome 7. *Cytogenet. Cell Genet.* 35: 67-69, 1983.
2. Sparkes, R. S.; Mohandas, T.; Sparkes, M. C. : The human phosphoserine phosphatase gene (PSP) is mapped to chromosome 7 by somatic cell genetic analysis. *Cytogenet. Cell Genet.* 35: 70-71, 1983.