



## Mouse anti Phosphoserine Monoclonal Antibody

Alternate Names: pSER

### ANTIGEN PREPARATION

A chemically linked phosphoserine.

### BACKGROUND

Protein phosphorylation is involved in cell signaling pathways. These cascades are mediated by two types of kinases: serine/threonine kinases which phosphorylate serine and threonine amino acid side chains and tyrosine kinases which phosphorylate tyrosine amino acid side chains. This process is regulated by kinases and phosphatases.

### PURIFICATION

The Mouse IgG1 is purified by affinity chromatography.

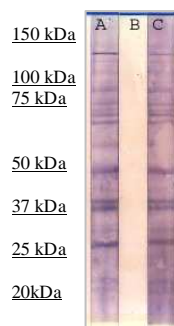
### SPECIFICITY

This antibody recognizes phospho-serine (phospho-Ser) only. It does not cross react with phospho-Tyrosine or phospho-Threonine.

### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	Not tested
Flow cytometry	Not tested

### DATA ATTACHMENTS



**WB:** The cell lysate derived from EGF-stimulated A431 was resolved onto 12% SDS-PAGE and immunoblotted by Mouse anti pSER (Cat#500-020) at 1:500 (lane A); or pre-incubated by Phosphoserine (lane B) or pre-incubated by phosphotyrosine (lane C). A panel of phosphorylated proteins was observed.

### Order Information

Description: Mouse anti pSER  
 Catalogue#: 500-020  
 Lot#: See the label  
 Size: 100 µg/200 µl  
 Host: Mouse  
 Clone: N/A  
 Isotyping: IgG1<sub>κ</sub>  
 Application: ELISA, WB  
 Reactivity: Hu, Rt, Ms

### FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.

### STORAGE

The antibodies are stable for 12 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

<b>MOLECULAR WEIGHT:</b>	N/A
<b>POSITIVE CONTROL:</b>	A431 (EGF stimulated)
<b>CELLULAR LOCATION:</b>	N/A

Optimal dilutions should be determined by researchers for the specific applications.

### REFERENCES

Munton RP, Tweedie-Cullen R, Livingstone-Zatchej M, Weinandy F, Waidelich M, Longo D, Gehrig P, Potthast F et al. Qualitative and quantitative analyses of protein phosphorylation in naive and stimulated mouse synaptosomal preparations". *Mol. Cell Proteomics* 6 (2): 283-93, 2007.

Trinidad JC, Thalhammer A, Specht CG, Lynn AJ, Baker PR, Schoepfer R, Burlingame AL. Quantitative analysis of synaptic phosphorylation and protein expression. *Mol. Cell Proteomics* 7 (4): 684-96, 2008

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