



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.

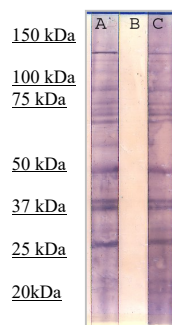
SPECIFICITY

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: 2A4
 Isotype: IgG1_κ
 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°C to -70°C. The antibodies can be stored at 2°C-8°C for three months without detectable loss of activity. Avoid repeated freezing-thawing cycles.

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