Mouse Monoclonal Antibody to

Phosphoserine

clone 16B4

Order No.: **0023-100/PSER-16B4**

Size (µg) 100

Lot No.: 0023S

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03/160307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgM	human, mouse, rat, dog	WB, ELISA, IP	pattern		...pSer - Pro...;...pSer - Lys	phosphopeptide conjugated to KLH

Background and Specificity:

Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating enzymatic activity or the ability to undergo protein-protein-interactions. Modification of proteins on serine residues is mediated by serine/threonine kinases.

Please note that phosphoserine detection by monoclonal antibodies is always dependent on the surrounding amino acid sequence!

Mab PSER-16B4 recognizes a broad range of serine-phosphorylated proteins in crude cell extracts, preferring positively charged amino acids directly neighboured to phosphoserine.

Related Products

mab against Phosphoserine

#0018-100/pSer-1C8

#0019-100/pSer-4A3

#0020-100/pSer-4A9

#0021-100/pSer-4H4

#0022-100/pSer-7F12

mab against Phosphothreonine

#0024-100/pThr-1E11

#0025-100/pThr-4D11

#0026-100/pThr-14B3

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

Formulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H_2O (15 min, RT).

Stability: For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 1 week.

Avoid repeated freeze / thaw cycles.

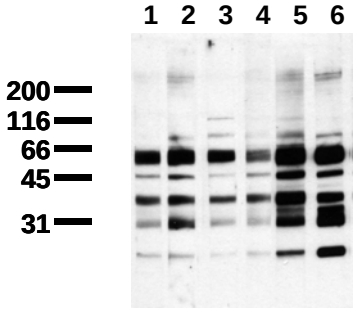
Positive Control: #0901: phosphoserine/phosphothreonine positive control

Immunoblotting: 1 µg/ml for HRPO/ECL detection
Recommended blocking buffer: BSA/Tween 20 based blocking buffer.
DO NOT USE MILK OR CASEIN FOR BLOCKING!

Immunoprecipitation: use at 1 - 10 µg per 10^6 pervanadate-treated A431 cells

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml



Phosphoserine Detection
Phosphoprotein Positive Control was probed with
lane 1: mab 1C8 (IgM), 1 µg/ml
lane 2: mab 4A3 (IgM), 1 µg/ml
lane 3: mab 4A9 (IgM), 1 µg/ml
lane 4: mab 4H4 (IgM), 1 µg/ml
lane 5: mab 7F12 (IgG), 1 µg/ml
lane 6: mab 16B4 (IgM), 1 µg/ml