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lane 2: mab 4A3 (IgM), 1  $\mu g/ml$  lane 3: mab 4A9 (IgM), 1  $\mu g/ml$ 

lane 4: mab 4H4 (IgM), 1 µg/ml

lane 5: mab 7F12 (IgG), 1  $\mu$ g/ml lane 6: mab 16B4 (IgM), 1  $\mu$ g/ml

## Mouse Monoclonal Antibody to

## Phosphoserine

clone 16B4

Order No.:		0023-100/P	0023-100/PSER-16B4					
Size (µg)		100	100			88		
Lot No.:		0023S	0023S			03/160307F		
Isotype	Species Reactivi	ity Applications	Mol. Weight	Ref.Cell Line	Epitope	03/1003	Immunogen	
IgM	human, mouse, dog	rat, WB, ELISA, IP	pattern		pSer - Pro.	;pSer - Lys	phosphopeptide conjugated to KLH	
Background and Specificity:						Related Pro	oducts	
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.						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		
Purificatio	ication: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.							
Formulatio	ulation: Iyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.							
Reconstitu	stitution: 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 Thaw aliquots at 37°C. Thawed aliquots may be stored at 4° 1 week.								
	A	Avoid repeated freeze / thaw cycles.					1 2 3 4 5 6	
Positive C	<b>Control:</b> #0901: phosphoserine/phosphothreonine positive control							
Immunoble	E E	I µg/ml for HRPO/EC Recommended bloc blocking buffer. DO NOT USE MILK	<b>king buffer:</b> BS		I	200 116 66 45 31		
Immunopr	precipitation: use at 1 - 10 $\mu$ g per 10 <sup>6</sup> pervanadate-treated A431 cells					Phosphoserine Detection		
Immunocy	unocytochemistry: ND				Phosphoprotein Positive Control was probed with			
ELISA:	U	use at 0.05 µg/ml lane 1: mab 1C8 (lgM), 1 µg/ml lane 2: mab 4A3 (lgM), 1 µg/ml						

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.