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Product datasheet for AM00115PU-N

Phosphoserine (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 4H4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4H4
Applications:	ELISA, IP, WB
Recommended Dilution:	**Western Blot:** 1 µg/ml for HRPO/ECL detection. ***Recommended blocking buffer:*** BSA/Tween 20 based blocking buffer. DO NOT USE MILK OR CASEIN FOR BLOCKING! **ELISA:** 0.05 µg/ml. **Immunoprecipitation**: 1-10 µg per 10e6 pervanadate-treated A431 cells. ***Included Positive Control:*** Phosphoserine/phosphothreonine positive control.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	This antibody recognizes a broad range of Serine-phosphorylated proteins in crude cell extracts, preferring positively charged amino acids directly neighboured to Phosphoserine. ***Please note*** that Phosphoserine detection by monoclonal antibodies is always dependent on the surrounding amino acid sequence!
Formulation:	1ml 2xPBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified IgG fractio from Serum-free cell culture supernatant
Reconstitution Method:	Restore with 1.0 ml H2O (15 min, RT).
Purification:	Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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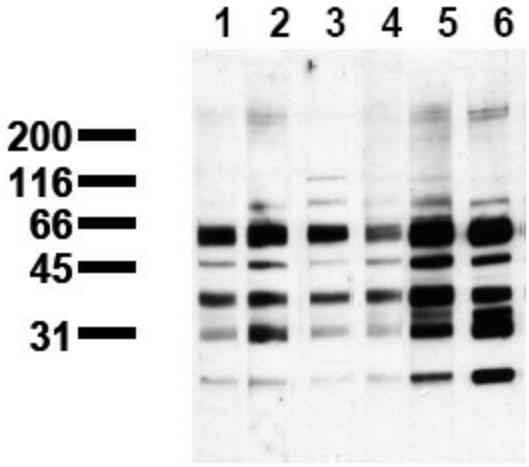
Background: Phosphorylation and dephosphorylation of cellular proteins are central steps in transducing extracellular signals to the cell nucleus. Phosphorylated epitopes may serve as docking sites for the assembly of protein complexes or may alter the 3-dimensional protein structure thus modulating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

Product images:



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