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Mouse Monoclonal Antibody to

Phosphotyrosine

clone 9H8

Order No.: **0029-100/PTYR-9H8**

Size (µg) 100

Lot No.: 0029S

02/060307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, rat, dog	WB, ELISA, IP	pattern		... R - G - pY - V - P ...	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 tyrosine residues is mediated by protein tyrosine kinases. Tyrosine phosphorylation may alter the biological activity or mediate the assembly of protein complexes via interaction of phosphotyrosine residues with SH2 or PID domains.

Mab PTYR-9H8 recognizes phosphotyrosine in the context of the surrounding amino acids, tolerating positively charged amino acids N-terminal to phosphotyrosine.

Related Products

mab against Phosphotyrosine

#0027-100/pTyr-2C8

#0028-100/pTyr-3B12

#0030-100/pTyr-16F4

#0133-100/pTyr-2A5

#0156-100/pTyr-9F1

#0226-100/pTyr-1F9

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.

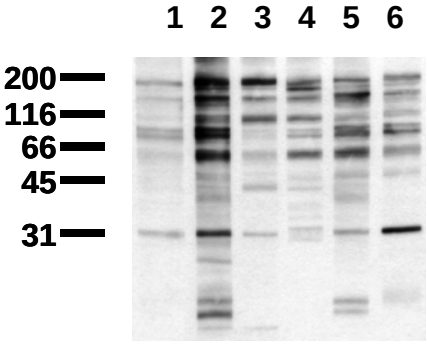
Reconstitution: Reconstitute with 1 ml H2O (15 min, RT).

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 3 months.

Avoid repeated freeze / thaw cycles.

Positive Control: #0038: phosphotyrosine MW standard

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.



Phosphotyrosine Detection
Lysates of pervanadate-treated A431 cells were probed with
lane 1: mab 2A5 (IgG), 1µg/ml
lane 2: mab 2C8 (IgG), 1µg/ml
lane 3: mab 3B12 (IgG), 1µg/ml
lane 4: mab 9H8 (IgG), 1µg/ml
lane 5: mab 16F4 (IgG), 1µg/ml
lane 6: mab 9F1 (IgG), 1µg/ml

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

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml

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