

AM00126BT-N**Monoclonal Antibody to Phosphotyrosine (pYpY Motif) (incl. pos. control) - Biotin****Quantity:** 0.1 mg**Concentration:** 0.5 mg/ml

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 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.

Host / Isotype: Mouse / IgG1**Recommended Isotype Controls:** SM10B (for use in human samples), SM20B (for use in rat samples)**Clone:** 9F1**Immunogen:** Synthetic phosphopeptide conjugated to KLH
Epitope: ...pYpY...

Format: **State:** Liquid purified IgG fraction
Purification: Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Buffer System: PBS with 0.09% Sodium Azide/PEG and Sucrose
Label: Biotin

Applications: **ELISA:** Use at 0.05 µg/ml.
Immunoblotting: 0.5 µg/ml for HRPO/ECL detection.
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L.
Immunoprecipitation: Use at 1-10 µg per 10⁶ pervanadate-treated A431 cells.
Included Positive Control: Phosphotyrosine MW standard.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This monoclonal antibody recognizes Phosphotyrosine in the context of the surrounding amino acids, tolerating hydrophobic amino acids and phosphotyrosine directly neighbored to Phosphotyrosine.

Species: Human, Mouse, Rat and Canine (Dog).
Other species not tested.

Storage: Aliquote and freeze in liquid nitrogen.
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.