

Monoclonal Antibody to Phosphotyrosine - TAMRA

Catalog No.:	AM00199TC-N
Quantity:	0.1 mg
Concentration:	Lot specific
Background:	<p>Phosphorylation of specific tyrosine residues has been shown to be a primary mechanism of signal transduction during normal mitogenesis, cell cycle progression and oncogenic transformation. Its role in other areas such as differentiation and gap junction communication, is a matter of active and ongoing research. Antibodies that specifically recognize phosphorylated tyrosine residues have proved to be invaluable to the study of tyrosine-phosphorylated protein biochemical pathways in which they function. The rhodamine conjugate of clone PY20 anti-phosphotyrosine is especially useful for the detection of these P-Tyr proteins in immunohistochemical and immunocytochemical protocols in situations wherein the use of a secondary antibody would complicate detection of the protein(s) of interest.</p>
Host / Isotype:	Mouse / IgG2b
Clone:	PY20
Immunogen:	Hybridoma produced from Balb/C mice immunized with phosphotyrosine coupled to carrier protein.
Format:	<p>State: Liquid purified IgG fraction. Purification: Affinity purification on a column of immobilized phosphotyrosine. Buffer System: 0.02 M Sodium Phosphate, pH 7.5 with 0.15 M Sodium Chloride, 3 mM Sodium Azide as preservative, 50% glycerol Label: TAMRA – The antibody was labeled by reaction with tetramethyl-rhodamine succinimidyl ester in the presence of phenyl phosphate (to protect the antibody binding site). The unreacted succinimidyl ester was removed by molecular exclusion chromatography</p>
Applications:	Suitable for Immunohistochemistry (5-10 µg/ml) and Immunocytochemistry (5-10 µg/ml). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody specifically recognizes phosphorylated tyrosine residues and does not react with phosphorylated threonine or serine residues.
Storage:	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
Caution:	This antibody is known to be inhibited by divalent cations (> 1mM) and high salt concentrations (> 0.2M).