

## Monoclonal Antibody to Phosphotyrosine - TAMRA

<b>Catalog No.:</b>	AM00199TC-S
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	Lot specific
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Mouse / IgG2b
<b>Clone:</b>	PY20
<b>Immunogen:</b>	Hybridoma produced from Balb/C mice immunized with phosphotyrosine coupled to carrier protein.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity purification on a column of immobilized phosphotyrosine. <b>Buffer System:</b> 0.02 M Sodium Phosphate, pH 7.5 with 0.15 M Sodium Chloride, 3 mM Sodium Azide as preservative, 50% glycerol <b>Label:</b> 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
<b>Applications:</b>	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.
<b>Specificity:</b>	This antibody specifically recognizes phosphorylated tyrosine residues and does not react with phosphorylated threonine or serine residues.
<b>Storage:</b>	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.
<b>Caution:</b>	This antibody is known to be inhibited by divalent cations (> 1mM) and high salt concentrations (> 0.2M).

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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