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Monoclonal Antibody to Phosphotyrosine - FITC

Catalog No.: AM00199FC-T

Quantity: 50 µg

Concentration: Lot specific

Background: The role of tyrosine phosphorylation in transduction of the mitogenic signal from transmembrane receptors and in transformation by oncogene tyrosine kinases has been the subject of intense investigation for several years. While the 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 proteins and the biochemical pathways in which they function.
The fluorescein (FITC) 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.

Host / Isotype: Mouse / IgG2b

Clone: PY20

Immunogen: Hybridoma produced from Balb/C mice immunized with phosphotyrosine coupled to carrier protein.

Format: **State:** Liquid (sterile filtered) purified IgG fraction.
Purification: Affinity purification on a column of immobilized phosphotyrosine.
Buffer System: 20 mM sodium phosphate, 150 mM sodium chloride, 50% glycerol, 3 mM sodium azide as preservative.
Label: FITC – Fluorescein isothiocyanate in the presence of phenyl phosphate (to protect the antibody binding site). The unreacted was removed by molecular exclusion chromatography

Applications: Immunohistochemistry (5-10 ug/ml).
Immunocytochemistry. (5-10 ug/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).