

Product datasheet for **AM00199FC-T**

Phosphotyrosine Mouse Monoclonal Antibody [Clone ID: PY20]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PY20
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA. Western Blot. Immunoprecipitation. Immunohistochemistry (5-10 µg/ml). Immunocytochemistry (5-10 µg/ml).
Reactivity:	Broad
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Hybridoma produced from Balb/C mice immunized with phosphotyrosine coupled to carrier protein.
Specificity:	This antibody specifically recognizes phosphorylated tyrosine residues and does not react with phosphorylated threonine or serine residues.
Formulation:	20mM Sodium Phosphate, 150mM Sodium Chloride Label: FITC State: Liquid (sterile filtered) purified IgG fraction. Stabilizer: 50% Glycerol Preservative: 3 mM Sodium Azide Label: Fluorescein isothiocyanate in the presence of phenyl phosphate (to protect the antibody binding site). The unreacted was removed by molecular exclusion chromatography
Concentration:	lot specific
Purification:	Affinity purification on a column of immobilized phosphotyrosine.
Conjugation:	FITC
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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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.