

Product datasheet for **AM00199HR-T**

Phosphotyrosine Mouse Monoclonal Antibody [Clone ID: PY20]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PY20
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	Suitable for Western Blot, ELISA, Immunohistochemistry and Immunocytochemistry. Working dilution of 1/2,000 is suggested for Western blot or ELISA, 1/500 for Immunohistochemistry or Immunocytochemistry.
Reactivity:	Broad
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Hybridoma produced from Balb/C mice immunized with phosphotyrosine coupled to carrier protein.
Specificity:	Clone PY20 specifically recognizes phosphorylated tyrosine residues and does not react with phosphorylated threonine or serine residues.
Formulation:	50% glycerol, 0.02 M sodium phosphate, pH 7.5, 0.15 M sodium chloride. Label: HRP State: Liquid purified IgG fraction Label: Coupled through free primary amino groups to Periodate-activated Horseradish Peroxidase The binding site of the antibody was protected by the addition of phenyl phosphate prior to coupling
Concentration:	lot specific
Purification:	Affinity purification on a column of immobilized phosphotyrosine
Conjugation:	HRP
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.
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 invaluable to the study of tyrosine-phosphorylated proteins and the biochemical pathways in which they function. The HRP conjugate of PY20 anti-phosphotyrosine is especially useful for the detection of phosphotyrosyl proteins in western blotting, immunohistochemical and immunocytochemical protocols in situations wherein the use of a secondary antibody would produce undesirable background signals.