



Phosphotyrosine FITC conjugate. Mouse Monoclonal Antibody

Mouse anti phosphotyrosine, PY20, FITC conjugate

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.

IMMUNOGEN

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

POSITIVE CONTROL/TISSUE EXPRESSION

COMMENTS

A dilution of 5-10 ug/ml is suggested for immunohistochemistry or immunofluorescence. Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X1017

SIZE

100 µg

FORM

FITC

HOST/CLONE

Mouse Clone PY20

FORMULATION

Provided as sterile solution in 20 mM sodium phosphate, 150 mM sodium chloride, 50% glycerol, 3 mM sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG2b

APPLICATIONS

Western Blot, Immunoprecipitation, Enzyme Immunoassay, Immunofluorescence

SPECIES REACTIVITY

Ubiquitous

ACCESSION NUMBER

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PURIFICATION

SHIP CONDITIONS

Room Temperature

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

PRODUCT SPECIFIC REFERENCES

1. Tahiri, A., et al. 'Differential Inhibition of Ex-Vivo Tumor Kinase Activity by Vemurafenib in BRAF(V600E) and BRAF Wild-Type Metastatic Malignant Melanoma.' PLoS One, 8, e72692 (2013)
2. Galvani, E., et al. 'Molecular Mechanisms Underlying the Antitumor Activity of 3-Aminopropanamide Irreversible Inhibitors of the Epidermal Growth Factor Receptor in Non-Small Cell Lung Cancer.' Neoplasia, 15, 61-72 (2013)