

Anti-Phosphotyrosine Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56494 (clone G104))

Size: 100ug in PBS, pH 7.4 (1mg/ml).

Purified by Protein G affinity chromatography.

BACKGROUND

Protein phosphorylation is an important posttranslational modification that serves many key functions in regulation of protein activity, localization, and protein-protein interactions. Phosphorylation is catalyzed by specific protein kinases that remove a phosphate group from ATP and attach it covalently to a recipient protein. Some kinases act on serine and threonine, others act on tyrosine, and many act on all three. Phosphorylation of tyrosine is considered one of the key steps in signal transduction and regulation of enzymatic activity. Antibodies to phosphotyrosine are useful in identifying protein substrates of tyrosine kinase.

SPECIFICATION SUMMARY

Antigen: Phosphotyrosine, alanine and glycine in a 1:1:1 ratio polymerized in the presence of KLH with 1-ethyl-3-(3'-dimethylaminopropyl) carbodiimide.

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody reacts with phosphotyrosine and detects phosphotyrosine in proteins of unstimulated and stimulated cell lysates.

It does not cross-react with phosphoserine or phosphothreonine.

APPLICATIONS

Immunoblotting: use at 1ug/ml.

Immunohistochemistry: use at 1-10ug/ml.

Immunofluorescence: use at 1-10ug/ml.

Positive control: Rat tissue lysate

These are recommended concentrations; enduser should determine optimal concentrations for their applications.

See specific product references below for protocols and more information.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freeze-thaw cycles.

SPECIFIC PRODUCT REFERENCES

Garton AJ et al. 1996 Mol Cell Biol 16: 6408-6418.

Garton AJ and Tonks NK 1999 J Biol Chem 274: 3811-3818.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.