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AM33265PU-N Monoclonal Antibody to Phosphotyrosine - Purified

Quantity: 0.2 mg

Concentration: 0.2 mg/ml

Background: Protein phosphorylation is a fundamental event in the regulation of a large number of intracellular processes. Phosphorylation of specific tyrosine residues is the result of activation or stimulation of their respective protein tyrosine kinases. The phosphorylated proteins can be auto-phosphorylated kinases or certain cellular protein substrates. Tyrosine-phosphorylated proteins are involved in signal transduction and in the regulation of cell proliferation.

Host / Isotype: Mouse / IgG2b

Recommended Isotype Controls: SM12P, AM03110PU-N

Clone: SPM102

Immunogen: Phosphotyrosine conjugated to KLH

Format:
State: Liquid purified IgG fraction from Bioreactor Concentrate
Purification: Protein A/G Chromatography
Buffer System: 10mM PBS
Preservatives: 0.05% Sodium Azide
Stabilizers: 0.05% BSA

Applications:
ELISA: Use BSA free Antibody for Coating.
Western Blot: 0.5-1 µg/ml.
Flow Cytometry: 0.5-1 µg/10^6 cells.
Immunofluorescence: 1-2 µg/ml.
Immunoprecipitation: 1-2 µg/500 µg protein lysate.
Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 1-2 µg/ml for 30 minutes at RT.
No special pretreatment is required for staining of formalin/paraffin tissues.
Recommended Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: Depends upon the phosphorylated target

Specificity: Antibody to phosphotyrosine provides an excellent tool for the detection, characterization, and purification of phosphotyrosine containing proteins.
This Monoclonal antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications including staining of formalin/paraffin tissues.
Cellular Localization: Depends upon the location of phosphorylated target.

Storage: Store undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: one year from despatch.

General Readings:

1. Glenney JR, Zokas L, Kamps MP. Monoclonal antibodies to phosphotyrosine. J Immunol Methods. 1988 May 9;109(2):277-85. PubMed PMID: 2452204.

Pictures:

Formalin-Fixed, Paraffin-Embedded breast carcinoma stained with Phosphotyrosine Antibody Cat.-No AM33265PU (Clone SPM102). Note cell surface and cytoplasmic staining.