

**AM33265PU-T****Monoclonal Antibody to Phosphotyrosine - Purified**

<b>Quantity:</b>	20 µg
<b>Concentration:</b>	0.2 mg/ml
<b>Background:</b>	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.
<b>Host / Isotype:</b>	Mouse / IgG2b
<b>Recommended Isotype Controls:</b>	SM12P, AM03110PU-N
<b>Clone:</b>	SPM102
<b>Immunogen:</b>	Phosphotyrosine conjugated to KLH
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction from Bioreactor Concentrate <b>Purification:</b> Protein A/G Chromatography <b>Buffer System:</b> 10mM PBS <b>Preservatives:</b> 0.05% Sodium Azide <b>Stabilizers:</b> 0.05% BSA
<b>Applications:</b>	<b>ELISA:</b> Use BSA free Antibody for Coating. <b>Western Blot:</b> 0.5-1 µg/ml. <b>Flow Cytometry:</b> 0.5-1 µg/10 <sup>6</sup> cells. <b>Immunofluorescence:</b> 1-2 µg/ml. <b>Immunoprecipitation:</b> 1-2 µg/500 µg protein lysate. <b>Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections:</b> 1-2 µg/ml for 30 minutes at RT. No special pretreatment is required for staining of formalin/paraffin tissues. <b><i>Recommended Positive Control:</i></b> 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.
<b>Molecular Weight:</b>	Depends upon the phosphorylated target
<b>Specificity:</b>	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. <b><i>Cellular Localization:</i></b> Depends upon the location of phosphorylated target.
<b>Storage:</b>	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b> 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.

