

## Technical Data Sheet

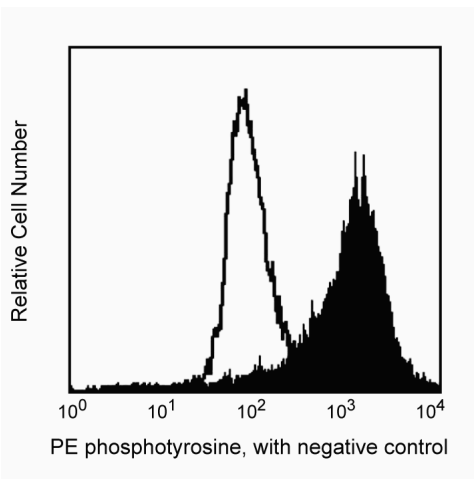
## PE Mouse Anti-Phosphotyrosine

## Product Information

Material Number:	558008
Size:	50 tests
Vol. per Test:	20 µl
Clone:	PY20
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human Tested in Development: Mouse, Dog, Rat, Chicken, Frog
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Description

Phosphorylation of specific tyrosine residues is the result of activation or stimulation of their respective protein tyrosine kinases. The phosphorylated proteins can be autophosphorylated kinases or certain protein substrates that are regulated in oncogenesis or cell growth. Antibodies to phosphotyrosine provide one of the best tools for the detection and characterization of phosphotyrosine proteins.



**Flow cytometric analysis of Phosphotyrosine.** PE conjugated anti-phosphotyrosine antibody (clone PY20) was tested on untreated control (open histogram) and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) treated Jurkat cells (filled histogram).

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

Intracellular staining (flow cytometry)	Routinely Tested
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## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100-µl experimental sample (a test).
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. This antibody has been developed for the application listed above. However, a routine test is not performed on every lot. Researchers should determine the optimal concentration of this reagent for their individual applications.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).

## References

Arvidsson AK, Rupp E, Nanberg E, et al. Tyr-716 in the platelet-derived growth factor beta-receptor kinase insert is involved in GRB2 binding and Ras activation. *Mol Cell Biol.* 1994; 14(10):6715-6726. (Biology)

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Fan Z, Mendelsohn J, Masui H, Kumar R. Regulation of epidermal growth factor receptor in NIH3T3/HER14 cells by antireceptor monoclonal antibodies. *J Biol Chem*. 1993; 268(28):21073-21079. (Biology)  
Glennay JR Jr, Zokas L, Kamps MP. Monoclonal antibodies to phosphotyrosine. *J Immunol Methods*. 1988; 109(2):277-285. (Biology)  
Nishikawa R, Ji XD, Harmon RC, et al. A mutant epidermal growth factor receptor common in human glioma confers enhanced tumorigenicity. *Proc Natl Acad Sci U S A*. 1994; 91(16):7727-7731. (Biology)

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