Technical Data Sheet

# HRP Mouse Anti-Phosphotyrosine

## Product Information

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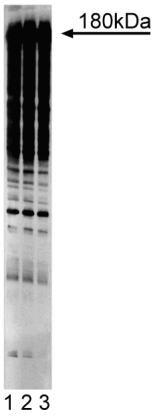
|---|---|
| **Material Number:** | **610011** |
| **Size:** | 50 µg |
| **Concentration:** | 250 µg/ml |
| **Clone:** | PY20 |
| **Isotype:** | Mouse IgG2b |
| **Reactivity:** | QC Testing: Human<br>Tested in Development: Chicken, Dog, Frog, Mouse, Rat |
| **Storage Buffer:** | Aqueous buffered solution containing BSA and glycerol. |

## Description

Phosphorylation of specific tyrosine residues is the result of of activation or stimulation or stimulation of their respective protein tyrosine kinases. The phosphorylated proteins can be autophosphorylated kinases or certain cellular 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.

**Technical Note:** The use of milk-containing buffers may interfere with a phosphotyrosine antibody's ability to bind specific proteins of interest. Please use BSA-containing buffers for blocking and incubating purposes.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.




***Western blot analysis of phosphotyrosine on A431 cell lysate.*** *Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of anti-phosphotyrosine, PY20.*

## Preparation and Storage

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

The antibody was conjugated with HRP under optimum conditions, and unconjugated antibody and free HRP were removed by gel filtration chromatography.
Store undiluted at -20° C.

## Application Notes

**Application**

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|---|---|
| Western blot | Routinely Tested |
| Immunoprecipitation | Not Recommended |
| Immunofluorescence | Not Recommended |
| Immunohistochemistry | Not Recommended |

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## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 611448 | A431 + EGF Cell Lysate | 500 µg | (none) |

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References


Alderton F, Rakhit S, Kong KC, et al. Tethering of the platelet-derived growth factor beta receptor to G-protein-coupled receptors. A novel platform for integrative signaling by these receptor classes in mammalian cells. *J Biol Chem.* 2001; 276(30):28578-28585.(Clone-specific: Western blot)

Borges E, Jan Y, Ruoslahti E. Platelet-derived growth factor receptor beta and vascular endothelial growth factor receptor 2 bind to the beta 3 integrin through its extracellular domain. *J Biol Chem.* 2000; 275(51):39867-39873.(Clone-specific: Western blot)

Goitsuka R, Tatsuno A, Ishiai M, Kurosaki T, Kitamura D. MIST functions through distinct domains in immunoreceptor signaling in the presence and absence of LAT. *J Biol Chem.* 2001; 276(38):36043-36050.(Clone-specific: Western blot)

Hemmeryckx B, Reichert A, Watanabe M, et al. BCR/ABL P190 transgenic mice develop leukemia in the absence of Crkl. *Oncogene.* 2002; 21(20):3225-3231.(Clone-specific: Western blot)

Smith AJ, Surviladze Z, Gaudet EA, Backer JM, Mitchell CA, Wilson BS. p110beta and p110delta phosphatidylinositol 3-kinases up-regulate Fc(epsilon)RI-activated Ca2+ influx by enhancing inositol 1,4,5-trisphosphate production. *J Biol Chem.* 2001; 276(20):17213-17220.(Clone-specific: Western blot)