

## Technical Data Sheet

## Biotin Mouse Anti-Phosphotyrosine

## Product Information

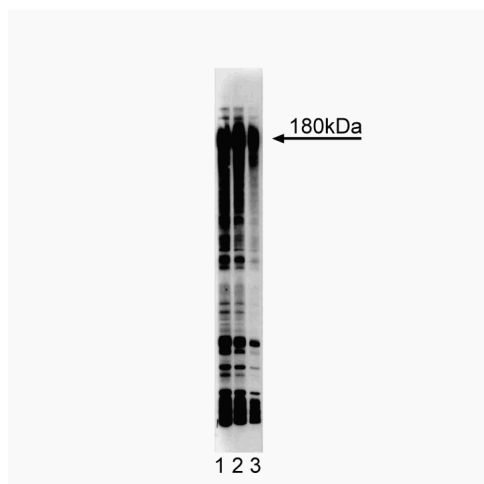
<b>Material Number:</b>	610007
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	PY20
<b>Isotype:</b>	Mouse IgG2b
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Chicken, Dog, Frog, Mouse, Rat
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% 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 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 lysate.** Lane 1: 1:2000, lane 2: 1:4000, lane 3: 1:8000 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 biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at -20° C.

## Application Notes

## Application

Western blot	Routinely Tested
Immunoprecipitation	Tested During Development
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)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

## Product Notices

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

## 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)

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)

Glenney JR Jr, Zokas L, Kamps MP. Monoclonal antibodies to phosphotyrosine. *J Immunol Methods.* 1988; 109(2):277-285.(Biology)

Kuppuswamy D, Kerr C, Narishige T, Kasi VS, Menick DR, Cooper G 4th. Association of tyrosine-phosphorylated c-Src with the cytoskeleton of hypertrophying myocardium. *J Biol Chem.* 1997; 272(7):4500-4508.(Clone-specific: Immunoprecipitation)

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)