

## Technical Data Sheet

## Purified Mouse Anti-Phosphotyrosine

## Product Information

<b>Material Number:</b>	<b>610430</b>
<b>Size:</b>	1.0 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Clone:</b>	PY69
<b>Isotype:</b>	Mouse IgG2a
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Mouse, Rat, Chicken, Dog, Frog
<b>Storage Buffer:</b>	Aqueous buffered solution containing glycerol and $\leq 0.09\%$ 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.



**Western blot analysis of Phosphotyrosine on A431 lysate.** 1:1000 (lane 1), 1:2000 (lane 2), 1:4000 (lane 3) dilution of Phosphotyrosine.

**Phosphotyrosine, clone PY69.** Left panel: A431 control. Right panel: A431 + EGF

## Preparation and Storage

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

Store undiluted at  $-20^{\circ}\text{C}$ .

## Application Notes

## Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

## Recommended Assay Procedure:

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.

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/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.

## BD Biosciences

[bdbiosciences.com](http://bdbiosciences.com)

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit [bdbiosciences.com/how\\_to\\_order/](http://bdbiosciences.com/how_to_order/)

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



## References

- Doronin S, Shumay E, Wang HY, Malbon CC. Akt mediates sequestration of the beta(2)-adrenergic receptor in response to insulin. *J Biol Chem.* 2002; 277(17):15124-15131.(Clone-specific: Western blot)
- Doronin S, Wang Hy HY, Malbon CC. Insulin stimulates phosphorylation of the beta 2-adrenergic receptor by the insulin receptor, creating a potent feedback inhibitor of its tyrosine kinase. *J Biol Chem.* 2002; 277(12):10698-10703.(Clone-specific: Western blot)
- Glenney JR Jr, Zokas L, Kamps MP. Monoclonal antibodies to phosphotyrosine. *J Immunol Methods.* 1988; 109(2):277-285.(Biology)
- Moro L, Dolce L, Cabodi S, et al. Integrin-induced epidermal growth factor (EGF) receptor activation requires c-Src and p13Cas and leads to phosphorylation of specific EGF receptor tyrosines. *J Biol Chem.* 2002; 277(11):9405-9414.(Clone-specific: Western blot)
- Yan Z, Deng X, Friedman E. Oncogenic Ki-ras confers a more aggressive colon cancer phenotype through modification of transforming growth factor-beta receptor III. *J Biol Chem.* 2001; 276(2):1555-1563.(Clone-specific: Western blot)