

ImmunO™

Anti-Phosphotyrosine, (Clone PY20)

Catalog #: 69137

Lot #: S3637

Description: Antibody is packaged in quantities of 100 µg at a concentration of 1 mg/ml in 100 mM Tris-Glycine, 150 mM sodium chloride, 0.05% sodium azide, pH 7. It is a highly purified immunoglobulin fraction.

Clone/

Isotype: Clone PY20. Isotype IgG_{2b}

Immunogen: Phosphotyrosine conjugated to carrier protein (PY-KLH) was used as immunogen. Balb/c mice were immunized with the conjugated hapten and the resultant hybridomas were selected for reactivity with the hapten by ELISA and with tyrosine-phosphorylated proteins by western blot. The antibody was affinity purified on a column of immobilized phosphotyrosine.

Specificity: Reacts specifically and strongly to phosphotyrosine containing proteins. It will not recognize phosphothreonine or phosphoserine containing proteins. This antibody is not species specific.

Note: This antibody is known to be inhibited by divalent cations (>1mM) and high salt concentrations (>0.2M).

Use: May be used in Western Blots, immunoprecipitation (native and denatured), immunofluorescence, immunohistochemistry, immunocytochemistry and ELISA procedures. An analytical advantage of using PY20 is that it is not a mouse IgG₁ and therefore lends itself well to Protein A (MP 98-705-1).

NOTE: Prior to using, mix well with gentle agitation.

Dilution: 1:5,000 for Western Blot

It is recommended that the individual lab obtain their own optimal dilution for their assay.

General: A large number of oncogene protein kinases and growth factor receptors will typically phosphorylate tyrosine residues. The PY20 and other phosphotyrosine antibodies have been effective in the characterization of tyrosine kinase substrates involved in oncogenesis, growth regulation and cell differentiation.

Storage: Store at 2-8°C, do not freeze.

Expiration Date: 2/20/2021

References: 1. Drucker, B.J. et al., *New Eng. J. Med.* **321**, 1383-1391, 1989.

2. Frackelton, R.A., Jr. et al., *Mol. Cell. Biol.* **3**, 1343-1352, 1983.

3. Glenney, J.R., Jr., Zokas, L. and Kamps, M.P., *J. Immunol. Meth.* **109**, 277-285, 1988.

4. Ruff-Jamison, S., Campos-Gonzalez, R. and Glenney, J.R., Jr., *J. Biol. Chem.* **266**, 6607-6613, 1991.

5. Wang, J.Y.J., *Anal. Biochem.* **172**, 1-7, 1988.

A handwritten signature in cursive script, appearing to read "J Huang".

Approved by: *John Huang, PhD*
Quality Control Manager

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