

Py-Plus™ -HRP Mouse anti-Phosphotyrosine (Cocktail)

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Rev. 1.00

Catalog Number: 13-6620

Store at 2°C to 8°C

Clonality: Monoclonal
Quantity: 100 µg
Volume: 200 µL

Host/Class: Mouse IgG
Reactivity: Tyrosine phosphorylated proteins
Predicted Reactivity: All species

Product Description

Protein tyrosine phosphorylation plays a central role in the transmission of signals from the cell surface to the nucleus.^{1,2} Reversible phosphorylation of cellular proteins on specific tyrosine residues is involved in a variety of fundamental cellular processes, including survival, proliferation, differentiation, and transformation.^{1,2,3} The use of antibodies which specifically recognize phosphotyrosine is widely accepted as one of the most powerful tools for detection, characterization, and purification of proteins that are either constitutively or inducibly phosphorylated on tyrosine (where even a single phosphorylated tyrosine residue is sufficient for detection).^{4,5,6,7}

Because no single monoclonal antibody can react strongly with all tyrosine-phosphorylated proteins, PY-Plus™ -HRP contains equivalent amounts of two different monoclonal antibodies with strong reactivity to the broadest range of tyrosine-phosphorylated proteins possible. The cocktail reacts specifically with tyrosine-phosphorylated proteins in both the native and denatured states. It shows no cross-reactivity to phosphoserine or phosphothreonine.

Product Specifications

Clone/PAD: PY-7E1, PY20
Isotype: IgG_{1-k}, IgG_{2b} (respectively)
Lot: See product label

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2°C to 8°C. Do not freeze.

Storage Buffer

Phosphate buffered saline, pH 7.4 containing 40% glycerol and 0.1% ProClin® as a preservative.

Product Applications

Applications reported for the PY-Plus™ -HRP Mouse anti-Phosphotyrosine Cocktail include western blotting,⁸⁻¹⁵ immunoprecipitation,¹⁶ and ELISA

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Application	Concentration
Western blotting	1:1000
Immunoprecipitation	1:500
ELISA	1:500 to 1:1000

For research use only. Not for use in diagnostic procedures.

References

1. Hunter T, *et al.* (1987) *Cell* 50:823–829.
2. Sun H, *et al.* (1994) *Trends Biochem Sci* 19:480–485.
3. Hunter T, *et al.* (1991) *Meth Enzymol* 200:3–37.
4. Frackelton AR, *et al.* (1983) *Mol Cell Biol* 3:1343–1352.
5. Daniel TO, *et al.* (1985) *PNAS* 82:2684–2687.
6. Glennly JR, *et al.* (1988) *J Immunol Meth* 109:277–285.
7. Sengupta A, *et al.* (1988) *PNAS* 85:8062–8066.
8. Bourguignon LY, *et al.* (1997) *J Biol Chem* 272(44):27913–27918.
9. Hua CI, *et al.* (1998) *J Biol Chem* 273(43):28333–28340.
10. Tava S, *et al.* (2001) *J Cell Biol* 155(5):809–819.
11. Bourguignon L, *et al.* (2001) *J Biol Chem* 276(10):7327–7336.
12. Gilbertson DG, *et al.* (2001) *J Biol Chem* 276(29):27406–27414.
13. Edens HA, *et al.* (2002) *J Immunol* 169:476–486.
14. Conus NM, *et al.* (2002) *J Biol Chem* 277(41):38021–38028.
15. Del Valle, *et al.* (2003) *J Biol Chem* 278(19):17430–17437.
16. Conus NM, *et al.* (1998) *J Biol Chem* 273(8):4776–4782.

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit www.lifetechnologies.com/support.

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog No.
Mouse anti-Phosphotyrosine	100 µg	03-7700
Mouse anti-Phosphotyrosine-HRP	100 µg	03-7720
Mouse anti-Phosphotyrosine-AP	100 µg	03-7722
Mouse anti-Phosphotyrosine-Sepharose® 4B	0.5 mL	03-7742
Mouse anti-Phosphotyrosine	1 mg	03-7799
Mouse anti-Phosphotyrosine	200 µg	13-5900
PY-Plus™ Mouse anti-Phosphotyrosine cocktail	100 µg	13-6600
Mouse anti-Phosphothreonine	100 µg	13-9200
Rabbit anti-Phosphotyrosine	100 µg	61-5800
HRP-Polyclonal Rabbit anti-Phosphotyrosine	100 µg	61-5820
Rabbit anti-Phosphoserine	50 µg	61-8100
Rabbit anti-Phosphothreonine	50 µg	71-8200
Rabbit anti-PS/PT/PY Sampler Pack	20 µg × 3	90-0200

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

Limited Use Label License No. 327: Recombinant Antibody Technology

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