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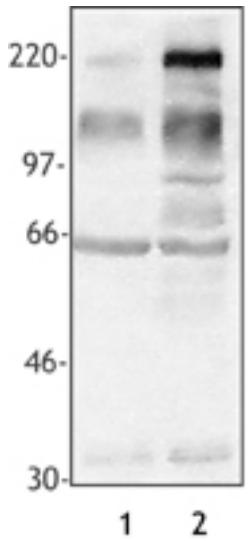
Product Data Sheet

Biotin anti-Phosphotyrosine

Catalog # / Size: 309304 / 100 µg
Clone: PY20
Isotype: Mouse IgG2b, κ
Immunogen: KLH-conjugated phosphotyrosine
Reactivity: All Species
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Hela cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with anti-phosphotyrosine antibody (clone PY-20).
Lane 1, serum-starved Hela cells; Lane 2, serum-starved Hela cells following serum addition for 4 hrs. Lane 2 shows an upregulation of tyrosine phosphorylated proteins after serum addition. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.

Applications:

Applications: WB - *Quality tested*
ICFC, IF, IP - *Reported in the literature*

Recommended Usage: Western blotting, suggested working dilution(s): Use 5 µg/5ml antibody dilution buffer per mini-gel. Do not use dilution or blocking buffers containing milk as they may interfere with antibody binding to proteins of interest. Dilution and blocking buffers containing 4% bovine serum albumin are recommended for use with this antibody. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation[1,2], Western blotting[1,2], immunofluorescence microscopy [3].

Application References:
1. Vuori K, *et al.* 1995. *J. Biol. Chem.* 270:22259. (IP, WB)
2. Glenney J, *et al.* 1988. *J. Immunol. Meth.* 109:277. (IP, WB)
3. Prahalad P, *et al.* 2004. *Am J Physiol Cell Physiol* 286:C693. (IF)
4. Zentillin L, *et al.* 2009. *FASEB J.* 24:1467. PubMed

Description: Phosphorylation is a common modification of proteins that can result in alterations in protein function, protein-protein association, cellular localization, and protein-half life. Phosphorylation can occur on threonine, serine, and tyrosine residues. The PY20 monoclonal antibody recognizes phosphorylated tyrosine residues in all species tested (human, mouse, rat, dog, chicken, and frog). The PY20 antibody has been shown to be useful for flow cytometry, immunoprecipitation, Western blotting, and immunofluorescence staining.

Related Products:

Product	Clone	Application
Purified anti-mouse CD3	17A2	FC, IHC, IP
Purified anti-human CD3	HIT3a	FC, IHC, IP
Purified anti-human CD3	UCHT1	FC, IHC, IP, WB, CyTOF®
FITC Streptavidin		FC, ICFC
HRP Streptavidin		ELISA, ELISPOT, IHC, WB
Purified anti-Fyn	Poly6041	WB
Purified anti-Lyn	Poly6046	WB
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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