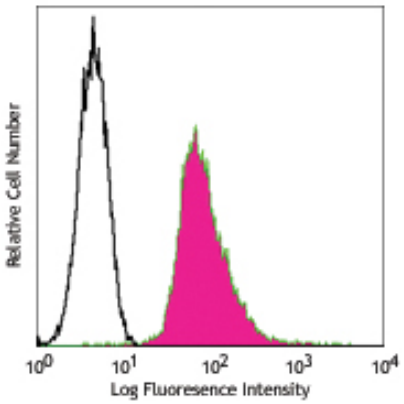
BioLegend
The path to legendary discovery™

Product Data Sheet

Alexa Fluor® 488 anti-Phosphotyrosine

Catalog # / Size: 309306 / 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 Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.
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 and protected from prolonged exposure to light. **Do not freeze.**



Hydrogen peroxide stimulated EL4 cells intracellularly stained with PY20 Alexa Fluor® 488

Applications:

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

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.
** Alexa Fluor® 488 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 488 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

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
Cell Staining Buffer		FC, ICC, ICFC
Alexa Fluor® 488 Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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