

Product Data Sheet

Alexa Fluor® 647 anti-human IL-21

Catalog # / Size: 513005 / 25 tests
513006 / 100 tests

Clone: 3A3-N2

Isotype: Mouse IgG1, κ

Immunogen: Recombinant full length human IL-21

Reactivity: Human, **Cross-Reactivity:** Rhesus

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: ICFC - *Quality tested*

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 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 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.

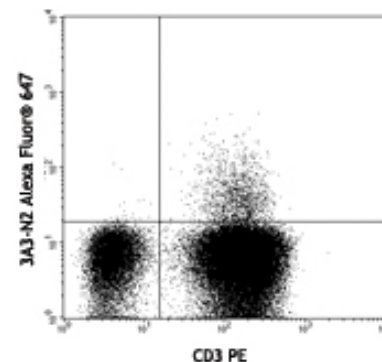
Description: Interleukin 21 (IL-21) is a potent immunomodulatory cytokine mainly produced by NKT and CD4+ T-cells, particularly the inflammatory Th17 subset, and has pleiotropic effects on both innate and adaptive immune responses. These actions include positive effects such as enhancing proliferation of NK cells and cytotoxic T cells, and inhibitory effects on the antigen-presenting function of dendritic cells. It can also be proapoptotic for B cells and NK cells. Studies have shown that IL-21 is also an autocrine cytokine that potently induces Th17 differentiation, suppresses Foxp3 expression, and serves as a target for treating inflammatory diseases.

- Antigen References:**
1. Nurieva R. 2007. *Nature* 448:416.
 2. Parrish-Novak J, *et al.* 2002. *J. Leukocyte Biol.* 72:856.
 3. Dumoutier L, *et al.* 2000. *Proc. Natl. Acad. Sci. USA* 97:10144.
 4. Asao H, *et al.* 2001. *J. Immunol.* 167:1.
 5. Parrish-Novak J, *et al.* 2000. *Nature* 408:57.

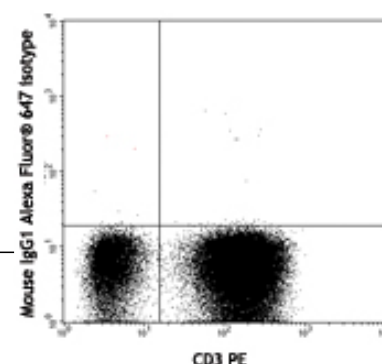
Related Products: **Product**
Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)
Cell Staining Buffer

Clone
MOPC-21

Application
FC, IF
FC, ICC, ICFC



PMA/ionomycin-stimulated (6 hours) human peripheral blood lymphocytes intracellularly stained with 3A3-N2 Alexa Fluor® 647 (top) or mouse IgG1 Alexa Fluor® 647 isotype control (bottom) and CD3 (UCHT1) PE



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