

PE anti-human IL-21

Catalog # / Size: 3183520 / 100 tests
3183515 / 25 tests

Clone: 4BG1

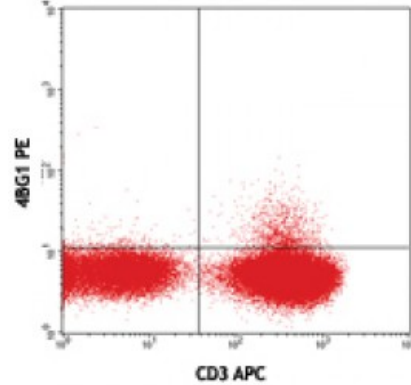
Isotype: Mouse IgG2b, κ

Reactivity: Human

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

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

Concentration: Lot-specific



PMA+ionomycin-stimulated (6 hours) human peripheral blood lymphocytes were surface stained with CD3 APC, then intracellularly stained with 4BG1 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. Rohman M, *et al.* 2007. *FEBS Lett.* 581:4001.
2. Onoda T, *et al.* 2007. *Int. Immunol.* 19:1191.

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. Recent studies have shown that IL-21 is also an autocrine cytokine that potently induces Th17 differentiation and 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.* 200