

IL-21 Monoclonal Antibody (eBio3A3-N2 (3A3-N2)), eFluor™ 660, eBioscience™

| Product Details | |
|--------------------------------|--|
| Size | 100 Tests |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 660, eBioscience™ |
| Class | Monoclonal |
| Туре | Antibody |
| Clone | eBio3A3-N2 (3A3-N2) |
| Conjugate | eFluor™ 660 |
| Form | Liquid |
| Concentration | 5 μL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_10598202 |

| Applications | Tested Dilution | Publications |
|-----------------------|----------------------|----------------|
| Flow Cytometry (Flow) | 5 μL (0.125 μg)/test | 5 Publications |

Product Specific Information

Description: The monoclonal antibody eBio3A3-N2 reacts with human IL-21, a potent stimulator of NK and cytolytic T cells. IL-21 is a 131 amino acid protein most closely related to IL-2 and IL-15. Expression is found in CD4+ cells upon activation. In addition to its effect on NK cells, IL-21 stimulates proliferation of B-cell stimulated by crosslinking of the CD40 antigen and stimulates the proliferation of bone marrow progenitor cells and the expression of the NK-cell marker CD56 in the presence of IL-15.

Applications Reported: This eBio3A3-N2 (3A3-N2) antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This eBio3A3-N2 (3A3-N2) antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of restimulated, Th17-polarized normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Staining for IL-21 has shown donor variability, stimulation times may vary depending on the donor and should be optimized. Increased staining levels have been observed on Th17-polarized normal human peripheral blood cells.

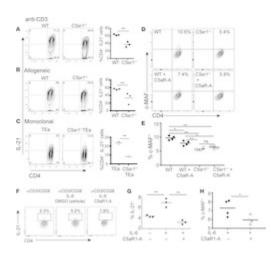
eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm).

Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

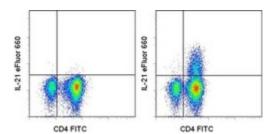
Advanced Verification Data



IL-21 Antibody (50-7219-42)

Figure 6 T cell-expressed C5aR1 regulates in vitro induction of IL-21-producing CD4+ T cells. Representative flow plots for IL-21-producing CD4+ T cells and summarized data of naive B6 CD62LhiCD44loCD4+ T cells from WT and C5ar1-/mice cultured with aCD3/CD28 (A) or allogeneic BALB/c splenic APCs (B) under Tfh cell-inducing conditions for 5 days (n = 3 per group, repeated twice with similar results). (C) Representative flow plots for IL-21-producing CD4+ T cells and summarized data of naive B6 CD62LhiCD44loCD4+ T cells from WT TEa or C5ar1-/- TEa TCR-transgenic mice cultured with (bxd)F1 APCs under Tfh cell-inducing conditions for 5 days (n = 3/group, repeated once with similar results). (D and E) Representative flow plots (D) and quantitation (E) for c-MAF expression from WT and C5ar1-/- mice cultured with aCD3/CD28 with or without C5aR1-A for 5 days (n. = 4/group, repeated twice with similar results). (F-H) Representative flow cytometry plots (F) and quantification (G) of IL-21 producers and quantitation of intracellular c-MAF (H) within human CD4+ T cells stimulated for 5 days under the conditions shown, with or without human C5aR1-A. n = 3-4/group. Each experiment shown is representative of at least 3 independent experiments for each set of studies. *P < 0.05, **P < 0.01 by Student's t test. Cell treatment validation info.

Product Images For IL-21 Monoclonal Antibody (eBio3A3-N2 (3A3-N2)), eFluor™ 660, eBioscience™



IL-21 Antibody (50-7219-42) in Flow

Intracellular staining of Th17-polarized normal human peripheral blood cells restimulated with monensin alone (left) or PMA/lonomycin and monensin for 5 hours (right) with Anti-Human CD4 FITC (Product # 11-0049-42) and Anti-Human IL-21 eFluor® 660. Cells in the lymphocyte gate were used for analysis.

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□ 5 References

Flow Cytometry (5)

European journal of medical research

IL-22 production of effector CD4⁺ T-cells is altered in SLE patients.

"50-7219 was used in Flow Cytometry to demonstrate that CD134+CD4+ T-cells are increased in the peripheral blood of patients with systemic lupus erythematosus as compared to healthy controls."

Authors: Dolff S,Scharpenberg C,Specker C,Kribben A,Witzke O,Wilde B

Species Human

DilutionNot Cited

Year 2019

JCI insight

C5aR1 regulates T follicular helper differentiation and chronic graftversus-host disease bronchiolitis obliterans.

"Published figure using IL-21 monoclonal antibody (Product # 50-7219-42) in Flow Cytometry"

Authors: Verghese DA,Chun N,Paz K,Fribourg M,Woodruff TM,Flynn R,Hu Y,Xiong H,Zhang W,Yi Z,Du J,Blazar BR, Heeger PS

SpeciesNot Applicable

Dilution Not Cited

Year 2018

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