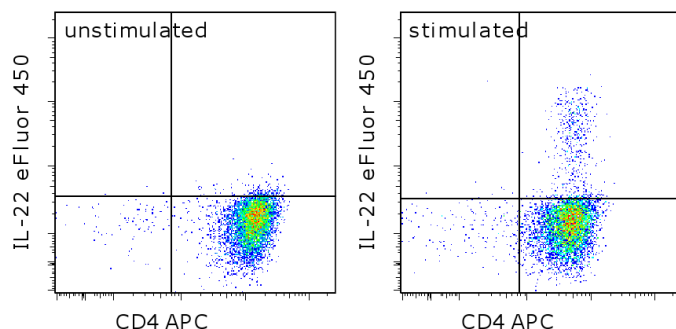


Anti-Human IL-22 eFluor® 450

Catalog Number: 48-7229

Also known as: Interleukin-22

RUO: For Research Use Only. Not for use in diagnostic procedures.



CD4-enriched normal human peripheral blood cells were polarized under Th17 conditions for 10 days then treated with Protein Transport Inhibitor Cocktail (cat. 00-4980) (left) or Cell Stimulation Cocktail (plus protein transport inhibitors) (cat. 00-4975) (right) for 5 hours. Cells were fixed and permeabilized with the Fixation & Permeabilization Buffers (cat. 00-8823) and then intracellularly stained with Anti-Human CD4 APC (cat. 17-0049) and Anti-Human IL-22 eFluor® 450. Total viable cells, as determined by Fixable Viability Dye eFluor® 780, were used for analysis.

Product Information



Contents: Anti-Human IL-22 eFluor® 450

Catalog Number: 48-7229

Clone: 22URTI

Concentration: 5 µL (0.06 µg)/test

Host/Isotype: Mouse IgG1, kappa



LOT



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The 22URTI monoclonal antibody reacts with human interleukin(IL)-22. IL-22 is a 20 kDa member of the IL-10 cytokine family that is secreted primarily by Th17 and NK cells. Nevertheless, other T cells have also been shown to produce IL-22. In *in vitro* Th17 cultures, induction of IL-22 expression is greater in response to IL-23 than IL-6 or TGF beta, suggesting that this cytokine may be secreted by more fully differentiated Th17 cells *in vivo*. A heterodimer consisting of IL-10R2 and IL-22R1 serves as the receptor for IL-22.

Applications Reported

This 22URTI antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This 22URTI antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of Th17-polarized normal human peripheral blood cells. This can be used at 5 µL (0.06 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.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Boniface K, Blumenschein WM, Brovont-Porth K, McGeachy MJ, Basham B, Desai B, Pierce R, McClanahan TK, Sadekova S, de Waal Malefyt R. Human Th17 cells comprise heterogeneous subsets including IFN-gamma-producing cells with distinct properties from the Th1 lineage. *J Immunol.* 2010 Jul 1;185(1):679-87. (**22URTI**, IC Flow, Pubmed)

Harper EG, Guo C, Rizzo H, Lillis JV, Kurtz SE, Skorcheva I, Purdy D, Fitch E, Iordanov M, Blauvelt A. Th17 Cytokines Stimulate CCL20 Expression in Keratinocytes In Vitro and In Vivo: Implications for Psoriasis Pathogenesis. *J Invest Dermatol.* 2009 Mar 19.

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Hughes T, Becknell B, McClory S, Briercheck E, Freud AG, Zhang X, Mao H, Nuovo G, Yu J, Caligiuri MA. Stage three immature human natural killer cells found in secondary lymphoid tissue constitutively and selectively express the TH17 cytokine interleukin-22. *Blood*. 2009 Feb 24.

Aujla SJ, Kolls JK. IL-22: A critical mediator in mucosal host defense. *J Mol Med*. 2009 Feb 14.

Bettelli E, Korn T, Oukka M, Kuchroo VK. Induction and effector functions of T(H)17 cells. *Nature*. 2008 Jun 19;453(7198):1051-7.

Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

00-4980 Protein Transport Inhibitor Cocktail (500X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

17-0049 Anti-Human CD4 APC (RPA-T4)

48-4714 Mouse IgG1 K Isotype Control eFluor® 450 (P3.6.2.8.1)

65-0865 Fixable Viability Dye eFluor® 780

88-8823 Fixation & Permeabilization Buffers