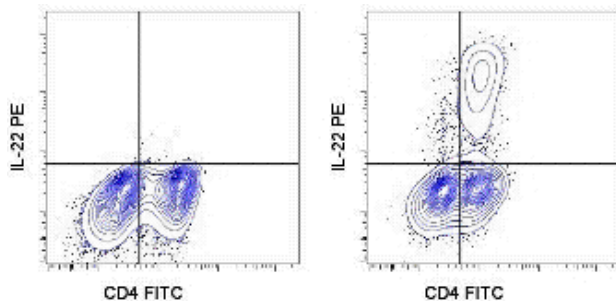


## Anti-Human IL-22 PE

**Catalog Number:** 12-7229

**Also Known As:** Interleukin-22

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



Staining of Th17-polarized, CD4-enriched normal human peripheral blood cells with Anti-Human CD4 FITC (cat. 11-0049) and Anti-Human IL-22 PE. Cultures were treated with Brefeldin A (left) alone (cat. 00-4506) or PMA, Ionomycin, and Brefeldin A (right) for 5 hours prior to intracellular staining. Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human IL-22 PE

**REF** **Catalog Number:** 12-7229

**Clone:** 22URTI

**Concentration:** 5 uL (0.06 ug)/test

**Host/Isotype:** Mouse IgG1, kappa

**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.

**LOT** **Batch Code:** Refer to Vial

**Use By:** Refer to Vial

**Caution, contains 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 followed by flow cytometric analysis of restimulated, Th17-polarized CD4+ human peripheral blood mononuclear cells (PBMC) or restimulated total PBMC. This can be used at 5 uL (0.01 µg) per test. A test is defined as the amount (µg)/test 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### 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.

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.

Betelli 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

00-4506 Brefeldin A Solution (1000X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

11-0049 Anti-Human CD4 FITC (RPA-T4)

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

88-8419 Human Th17 Cytokine Staining Panel

88-8823 Intracellular Fixation & Permeabilization Buffer (plus Brefeldin A) (previously named IC Fixation & Permeabilization Buffer)

---

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.eBioscience.com](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)