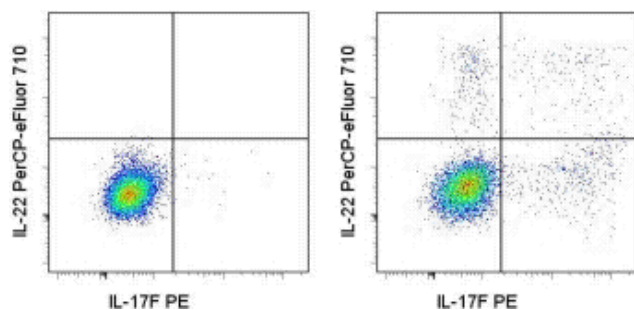


## Anti-Human IL-22 PerCP-eFluor<sup>®</sup> 710

**Catalog Number:** 46-7229

**Also Known As:** Interleukin-22

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



Intracellular staining of Th17-polarized normal human peripheral blood cells treated with Brefeldin A (cat. 00-4506) (left) or restimulated with PMA/Ionomycin in the presence of Brefeldin A (right) with Anti-Human IL-17F PE (cat. 12-7169) and Anti-Human IL-22 PerCP-eFluor<sup>®</sup> 710. Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human IL-22 PerCP-eFluor<sup>®</sup> 710

**REF** **Catalog Number:** 46-7229

**Clone:** 22URTI

**Concentration:** 5 uL (0.015 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

### 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 µL (0.015 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

PerCP-eFluor<sup>®</sup> 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor<sup>®</sup> 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor<sup>®</sup> 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor<sup>™</sup> Organic Dyes including PerCP-eFluor<sup>®</sup> 710.

### References

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.

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**

00-4506 Brefeldin A Solution (1000X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

12-7169 Anti-Human IL-17F PE (SHLR17)

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.1)

88-8419 Human Th17 Cytokine Staining Panel

88-8823 Fixation & Permeabilization Buffers

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