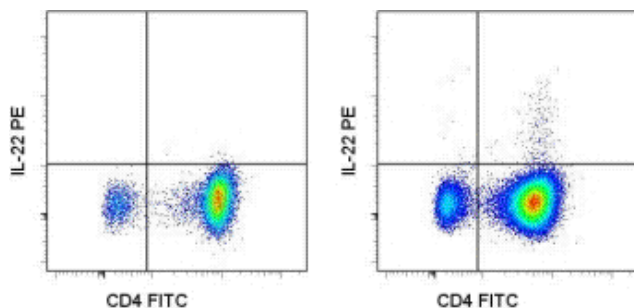


Anti-Mouse IL-22 PE

Catalog Number: 12-7221

Also Known As: Interleukin-22

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



Staining of 11-day Th17-polarized mouse splenocytes with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.06 µg of Anti-Mouse IL-22 PE. Cells were treated with Brefeldin A (cat. 00-4506) alone (left) 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-Mouse IL-22 PE


 **Catalog Number:** 12-7221

Clone: 1H8PWSR

Concentration: 0.2 mg/mL

Host/Isotype: Rat 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.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The 1H8PWSR monoclonal antibody reacts with mouse interleukin(IL)-22. IL-22 is a 20 kDa member of the IL-10 cytokine family that is secreted primarily by Th17, NK cells, and some other T cells. In vitro Th17 cultures, induction of IL-22 expression is greater in response to IL-23 than IL-6 or TGF-β, 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. Th17-secreted IL-22 binds to the IL-22 receptor complex on target cells to induce the expression of anti-microbial peptides β-defensin-2 and β-defensin-3. Recently, it was demonstrated that IL-22 is able to protect hosts against bacterial infections of the lungs and gut.

Applications Reported

This 1H8PWSR antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

This clone has been optimized for use with eBioscience IC Fixation and Permeabilization kit (cat. 88-8823).

Applications Tested

This 1H8PWSR antibody has been tested on Th17-polarized mouse splenocytes restimulated with PMA, Ionomycin and Brefeldin A for 5 hours. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products

11-0042 Anti-Mouse CD4 FITC (RM4-5)

45-7177 Anti-Mouse IL-17A PerCP-Cy5.5 (eBio17B7)

48-0042 Anti-Mouse CD4 eFluor® 450 (RM4-5)

50-7211 Anti-Mouse IL-21 eFluor® 660 (Alexa Fluor® 647 Replacement) (FFA21)

51-7213 Anti-Mouse IL-21 Alexa Fluor® 647 (mhalx21)

53-7471 Anti-Mouse IL-17F Alexa Fluor® 488 (eBio18F10)

88-8411 Mouse Th17 Cytokine Staining Panel

88-8823 Fixation & Permeabilization Buffers

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