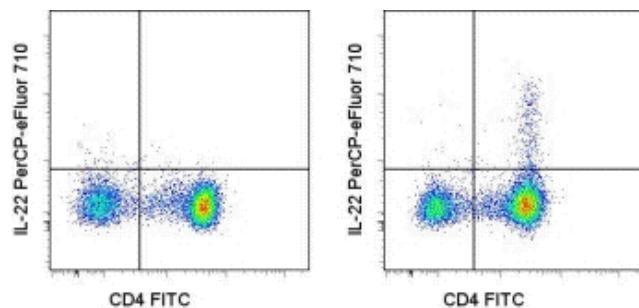


Anti-Mouse IL-22 PerCP-eFluor[®] 710

Catalog Number: 46-7221

Also Known As: Interleukin-22

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



Intracellular staining of 10-day Th17-polarized mouse splenocytes treated with Brefeldin A (cat. 00-4506) (left) or restimulated with PMA/Ionomycin in the presence of Brefeldin A for 5 hours (right) with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.06 ug of Anti-Mouse IL-22 PerCP-eFluor[®] 710. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse IL-22 PerCP-eFluor[®] 710


REF **Catalog Number:** 46-7221

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.

LOT **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 complexon 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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 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[®] 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[®] Organic Dyes including PerCP-eFluor[®] 710.

References

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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

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

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

11-7177 Anti-Mouse IL-17A FITC (eBio17B7)

12-6988 Anti-Human/Mouse ROR γ (t) PE (AFKJS-9)

12-7471 Anti-Mouse IL-17F PE (eBio18F10)

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

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

88-8411 Mouse Th17 Cytokine Staining Panel

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