

IL-22 Monoclonal Antibody (IL22JOP), PerCP-eFluor 710, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Human, Mouse, Rhesus monkey |
| Published Species | Mouse |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor 710, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | IL22JOP |
| Conjugate | PerCP-eFluor™ 710 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.1% gelatin |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2573839 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|----------------|
| Flow Cytometry (Flow) | 0.25 µg/test | 7 Publications |

Product Specific Information

Description: The monoclonal antibody IL22JOP reacts with and inhibits the bioactivity of human and mouse IL-22. IL-22 is a 20 kDa member of the IL-10 cytokine family that is secreted primarily by Th17 cells, NK cells, and other T cells. Compared to IL-6 or TGF beta, IL-23 can induce greater levels of IL-22 in in vitro-differentiated Th17 cells. This observation suggests that IL-22 may be secreted by more fully differentiated Th17 cells in vivo. Recently, it was demonstrated that IL-22 could protect hosts from bacterial infection of the lungs and gut. Moreover, it has been reported that anti-CD3/CD28-induced production of IL-22 by PBMCs was elevated significantly in asthma patients compared to control patients. Flow cytometric analysis also showed that the frequencies of IL-17+IL-22+ CD4 T cells were increased in PBMCs from patients with ankylosing spondylitis and rheumatoid arthritis.

IL22JOP is published to recognize rhesus IL-22.

Applications Reported: This IL22JOP antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This IL22JOP antibody has been tested by intracellular staining and flow cytometric analysis of TH17 polarized mouse splenocytes. This can be used at less than or equal to 0.25 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.

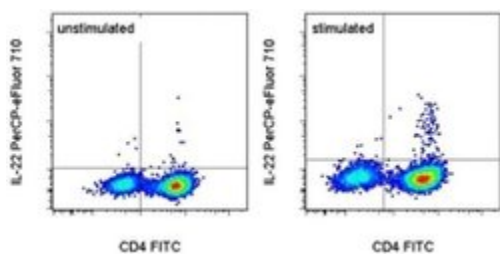
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic 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.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-22 Monoclonal Antibody (IL22JOP), PerCP-eFluor 710, eBioscience™



IL-22 Antibody (46-7222-82) in Flow

Th17 polarized mouse splenocytes either unstimulated (left) or stimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) (right) were intracellularly stained with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.125 µg of Anti-Human/Mouse IL-22 PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

7 References

Flow Cytometry (7)

Frontiers in immunology

ATF3 Sustains IL-22-Induced STAT3 Phosphorylation to Maintain Mucosal Immunity Through Inhibiting Phosphatases.

"Published figure using IL-22 monoclonal antibody (Product # 46-7222-82) in Flow Cytometry"

Authors: Glal D,Sudhakar JN,Lu HH,Liu MC,Chiang HY,Liu YC,Cheng CF,Shui JW

Species
Not Applicable

Dilution
Not Cited

Year
2019

Cell

Regulatory Innate Lymphoid Cells Control Innate Intestinal Inflammation.

"46-7222 was used in Flow cytometry/Cell sorting to identify a regulatory subpopulation of innate lymphoid cells that exists in the gut, and harbour a unique gene identity."

Authors: Wang S,Xia P,Chen Y,Qu Y,Xiong Z,Ye B,Du Y,Tian Y,Yin Z,Xu Z,Fan Z

Species
Mouse

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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