

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	22URTI
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596639

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.015 µg)/test	15 Publications

Product Specific Information

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 (normal human peripheral blood cells) or restimulated total normal human peripheral blood cells. 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 10⁵ to 10⁸ cells/test.

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

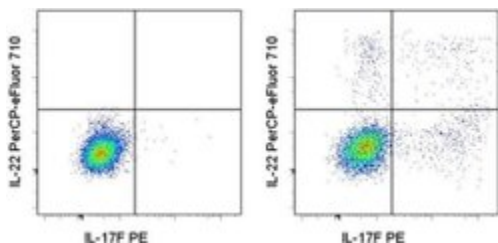
configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

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 (22URTI), PerCP-eFluor 710, eBioscience™



IL-22 Antibody (46-7229-42) in Flow

Intracellular staining of Th17-polarized normal human peripheral blood cells treated with Brefeldin A (Product # 00-4506-51) (left) or restimulated with PMA/Ionomycin in the presence of Brefeldin A (right) with Anti-Human IL-17F PE (Product # 12-7169-42) and Anti-Human IL-22 PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

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

15 References

Flow Cytometry (15)

European journal of immunology

Broadly reactive human CD4⁺ T cells against Enterobacteriaceae are found in the naïve repertoire and are clonally expanded in the memory repertoire.

"46-7229 was used in Flow cytometry/Cell sorting to demonstrate that a large fraction of memory Th cell clones was broadly cross-reactive to several Enterobacteriaceae species."

Authors: Cassotta A, Goldstein JD, Durini G, Jarrossay D, Baggi Menozzi F, Venditti M, Russo A, Falcone M, Lanzavecchia A, Gagliardi MC, Latorre D, Sallusto F

Species
Human

Dilution
Not Cited

Year
2021

RMD open

Th1 is the predominant helper T cell subset that produces GM-CSF in the joint of rheumatoid arthritis.

"46-7229 was used in Flow cytometry/Cell sorting to suggest the presence of common developmental pathway for these T cells."

Authors: Yamada H, Haraguchi A, Sakuraba K, Okazaki K, Fukushi JI, Mizu-Uchi H, Akasaki Y, Esaki Y, Kamura S, Fujimura K, Kondo M, Miyahara H, Nakashima Y, Yoshikai Y

Species
Human

Dilution
Not Cited

Year
2019

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More applications with references on thermofisher.com

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