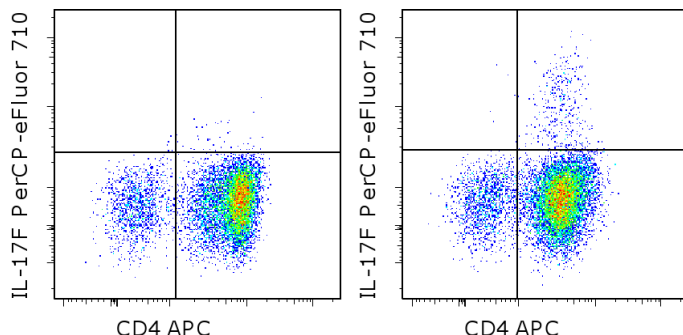


## Anti-Human IL-17F PerCP-eFluor® 710

**Catalog Number:** 46-7169

**Also known as:** Interleukin-17F, IL17F

**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 CD4 APC (cat. 17-0049) and Anti-Human IL-17F PerCP-eFluor® 710. Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human IL-17F PerCP-eFluor® 710



**Catalog Number:** 46-7169

**Clone:** SHLR17

**Concentration:** 5 µL (0.25 µg)/test

**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 SHLR17 monoclonal antibody reacts with human interleukin (IL)-17F. IL-17F is a homodimeric, 34 kDa member of the IL-17 family, which includes IL-17(A), B, C, D, E (IL-25). Within this family, IL-17A and IL-17F are produced preferentially by T helper 17 (Th17) cells, with other members produced more widely. IL-17F and IL-17A have many overlapping functions, but knockout studies have shown each to have independent functions as well. *In vitro* cultured Th17 cells have been shown to express IL-17F and IL-17A homodimers and IL-17A/F heterodimers depending on the culture conditions and their differentiation state. A heterodimer of IL-17RA and IL-17RC has been shown to bind IL-17F, resulting in target cell-secretion of pro-inflammatory cytokines and chemokines, as well as neutrophil recruitment.

### Applications Reported

This SHLR17 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

### Applications Tested

This SHLR17 antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of TH17-polarized peripheral blood mononuclear cells. This can be used at 5 µL (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 10<sup>5</sup> to 10<sup>8</sup> 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.

Click here or contact eBioscience Technical Support for more information on eFluor® Organic Dyes including PerCP-

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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.

Dong C. TH17 cells in development: an updated view of their molecular identity and genetic programming. *Nat Rev Immunol*. 2008 May;8(5):337-48.

Wright JF, Guo Y, Quazi A, Luxenberg DP, Bennett F, Ross JF, Qiu Y, Whitters MJ, Tomkinson KN, Dunussi-Joannopoulos K, Carreno BM, Collins M, Wolfman NM. Identification of an interleukin 17F/17A heterodimer in activated human CD4+ T cells. *J Biol Chem*. 2007 May 4;282(18):13447-55.

### Related Products

00-4506 Brefeldin A Solution (1000X)

12-7179 Anti-Human IL-17A PE (eBio64DEC17)

17-0049 Anti-Human CD4 APC (RPA-T4)

46-4301 Rat IgG1 K Isotype Control PerCP-eFluor® 710

51-7229 Anti-Human IL-22 Alexa Fluor® 647 (To Be Discontinued. Refer to Replacement Format eFluor® 660, cat.

50-7229) (22URT)