

# IL-4 Monoclonal Antibody (11B11), PerCP-eFluor™ 710, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 100 µg  |
| Species Reactivity          | Mouse   |
| Host/Isotype                | Rat / IgG1, kappa   |
| Recommended Isotype Control | Rat IgG1 kappa Isotype Control (eBRG1), PerCP-eFluor™ 710, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | 11B11   |
| Conjugate                   | PerCP-eFluor™ 710   |
| Excitation/Emission Max     | 482/708 nm  |
| Form                        | Liquid  |
| Concentration               | 0.2 mg/mL   |
| Purification                | Affinity chromatography   |
| Storage buffer              | PBS, pH 7.2   |
| Contains                    | 0.09% sodium azide  |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!                                     |
| RRID                        | AB_2573827  |

| Applications          | Tested Dilution | Publications    |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 0.125 µg/test   | 25 Publications |

## Product Specific Information

**Description:** The 11B11 antibody reacts with mouse interleukin-4 (IL-4), a 14 kD cytokine. The 11B11 antibody is a neutralizing antibody. Mouse IL-4, also known as BCDF, BCGF-1 and BSF-1, is secreted by activated Th2 and natural killer T cells, and to a lesser extent by Th1 and mast cells. IL-4 is species-specific and promotes proliferation and differentiation of B cells. IL-4, in conjunction with other signals such as CD40, induces Ig isotype switching of B cells and the upregulation of surface MHC class II and CD23.

**Applications Reported:** This 11B11 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This 11B11 antibody has been tested by intracellular staining and flow cytometric analysis of Th2 polarized and stimulated mouse splenocytes. 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

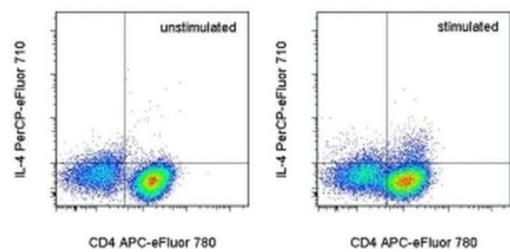
**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-4 Monoclonal Antibody (11B11), PerCP-eFluor™ 710, eBioscience™



**IL-4 Antibody (46-7041-82) in Flow**  
Mouse Th2-polarized splenocytes were unstimulated (left) or restimulated (right) with the Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03). Cells were intracellularly stained with Anti-Mouse CD4 APC-eFluor® 780 (Product # 47-0041-82) and 0.06 µg of Anti-Mouse IL-4 PerCP-eFluor® 710. Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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25 References

Flow Cytometry (25)

|  |      |
|--|------|
| British journal of pharmacology  | Year |
| <b>Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.</b> | 2023 |
| "Published figure using IL-4 monoclonal antibody (Product # 46-7041-82) in Flow Cytometry"                         |      |
| Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF   |      |

|   |      |
|---|------|
| Biomaterials  | Year |
| <b>Respiratory mucosal vaccination of peptide-poloxamine-DNA nanoparticles provides complete protection against lethal SARS-CoV-2 challenge.</b>                            | 2023 |
| "Published figure using IL-4 monoclonal antibody (Product # 46-7041-82) in Flow Cytometry"  |      |
| Authors: Sun S,Li E,Zhao G,Tang J,Zuo Q,Cai L,Xu C,Sui C,Ou Y,Liu C,Li H,Ding Y,Li C,Lu D,Zhang W,Luo P,Cheng P, Gao Y,Tu C,Pitard B,Rosenecker J,Wang B,Liu Y,Zou Q,Guan S |      |

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