

IL-4 Monoclonal Antibody (11B11), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	11B11
Conjugate	PE
Excitation/Emission Max	565/576 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_466156

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	78 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.

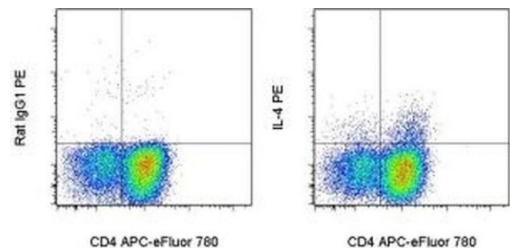
Applications Reported: This 11B11 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: Has been tested by intracellular staining 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-4 Monoclonal Antibody (11B11), PE, eBioscience™



IL-4 Antibody (12-7041-82) in Flow
Intracellular staining of Th2-polarized mouse splenocytes with Anti-Mouse CD4 APC-eFluor® 780 (Product # 47-0041-82) and 0.06 µg of Rat IgG1 K Isotype Control PE (Product # 12-4301-82) (left) or 0.06 µg of Anti-Mouse IL-4 PE (right). Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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[78 References](#)

Flow Cytometry (78)

Redox biology	Year 2024
IL-4 activates ULK1/Atg9a/Rab9 in asthma, NLRP3 inflammasomes, and Golgi fragmentation by increasing autophagy flux and mitochondrial oxidative stress.	
"Published figure using IL-4 monoclonal antibody (Product # 12-7041-82) in Flow Cytometry"	
Authors: Xu C,Song Y,Liu W,Liu R,Bai Q,Li L,Wang C,Yan G	
Communications biology	Year 2024
Effects of iodine intake on gut microbiota and gut metabolites in Hashimoto thyroiditis-diseased humans and mice.	
"Published figure using IL-4 monoclonal antibody (Product # 12-7041-82) in Flow Cytometry"	
Authors: Gong B,Meng F,Wang X,Han Y,Yang W,Wang C,Shan Z	

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

More applications with references on thermofisher.com

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