

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

Product Details	
Size	25 Tests
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	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10854281

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	58 Publications
Functional Assay (FN)	-	1 Publication

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 pre-titrated and tested by intracellular staining of Th2 polarized and stimulated mouse splenocytes. This can be used at 5 µL (0.06 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.

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

Filtration: 0.2 µm post-manufacturing filtered.

Immunocytochemistry (1)

<p>Infection and immunity</p> <p>Dendritic cell and NK cell reciprocal cross talk promotes gamma interferon-dependent immunity to blood-stage Plasmodium chabaudi AS infection in mice.</p> <p>"12-7041 was used in Immunofluorescence to elucidate the signalling mechanisms underlying interferon--dependent immunity to malaria."</p> <p>Authors: Ing R,Stevenson MM</p>	<p>Year 2009</p> <p>Species Mouse</p>
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Flow Cytometry (58)

<p>British journal of pharmacology</p> <p>Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.</p> <p>"Published figure using IL-4 monoclonal antibody (Product # 12-7041-41) in Flow Cytometry"</p> <p>Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF</p>	<p>Year 2023</p>
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<p>Biomaterials</p> <p>Respiratory mucosal vaccination of peptide-poloxamine-DNA nanoparticles provides complete protection against lethal SARS-CoV-2 challenge.</p> <p>"Published figure using IL-4 monoclonal antibody (Product # 12-7041-41) in Flow Cytometry"</p> <p>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</p>	<p>Year 2023</p>
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Functional Assay (1)

<p>International immunology</p> <p>Requirement of GATA-binding protein 3 for Il13 gene expression in IL-18-stimulated Th1 cells.</p> <p>"12-7041 was used in Functional assays to elucidate the molecular mechanism by which gene expression pattern is altered in T(h)1 cells in response to IL-18, showing that Gata3 is required for this altered gene expression."</p> <p>Authors: Nakahira M,Nakanishi K</p>	<p>Year 2011</p> <p>Species Mouse</p>
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