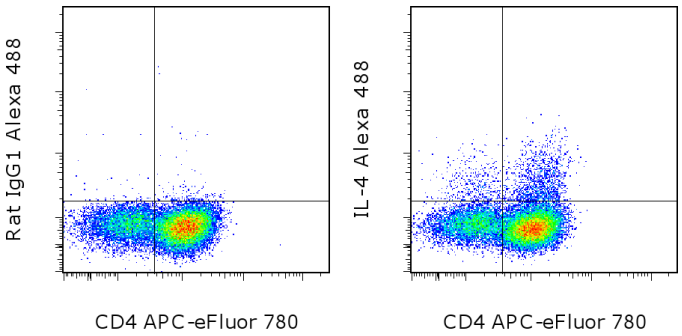
Anti-Mouse IL-4 Alexa Fluor® 488

Catalog Number: 53-7041
Also known as: Interleukin-4
RUO: For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of Th2-polarized mouse splenocytes with Anti-Mouse CD4 APC-eFluor® 780 (cat. 47-0041) and 1.0 ug of Rat IgG1 K Isotype Control Alexa Fluor® 488 (cat. 53-4301) (left) or 1.0 ug of Anti-Mouse IL-4 Alexa Fluor® 488 (right). Total viable cells, as determined by Fixable Viability Dye eFluor® 450, were used for analysis.

Product Information

Contents: Anti-Mouse IL-4 Alexa Fluor® 488
REF **Catalog Number:** 53-7041
Clone: 11B11
Concentration: 0.5 mg/mL
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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Caution, contains Azide

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 1 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Abrams, J. 1995. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In Current Protocols in Immunology. A. Kruisbeek eds. Wiley-Interscience, New York. Unit 6.20.1.

Ohara, J. and W. E. Paul. 1985. Production of a monoclonal antibody to and molecular characterization of B-cell stimulatory factor-1. Nature. 1985 May 23-29;315(6017):333-6.

Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)
16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)
16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

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47-0041 Anti-Mouse CD4 APC-eFluor® 780 (GK1.5)
53-4301 Rat IgG1 K Isotype Control Alexa Fluor® 488
65-0863 Fixable Viability Dye eFluor® 450
88-8824 Intracellular Fixation & Permeabilization Buffer Set

Legal

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