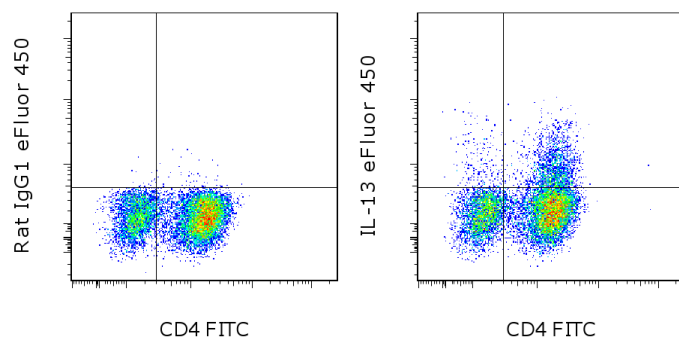


Anti-Mouse IL-13 eFluor® 450

Catalog Number: 48-7133

Also known as: Interleukin-13

RUO: For Research Use Only. Not for use in diagnostic procedures.



BALB/c splenocytes were stimulated for 3 days with plate-bound Anti-Mouse CD3e Functional Grade Purified (cat. 16-0031), soluble Anti-Mouse CD28 Functional Grade Purified (cat. 16-0281), Mouse IL-2 Recombinant Protein (cat. 14-8021), and Mouse IL-4 Recombinant Protein (cat. 14-8041). Cells were then restimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) for 5 hours. Following restimulation, cells were fixed and permeabilized and then stained with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.5 ug of Rat IgG1 K Isotype Control eFluor® 450 (cat. 48-4301) (left) or 0.5 ug of Anti-Mouse IL-13 eFluor® 450 (right). Viable cells, as determined by Fixable Viability Dye eFluor® 780, were used for analysis.

Product Information



Contents: Anti-Mouse IL-13 eFluor® 450

Catalog Number: 48-7133

Clone: eBio13A

Concentration: 0.2 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.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The eBio13A antibody reacts with mouse IL-13. IL-13 is a cytokine produced mainly by Th2 cells, but also by antigen-primed CD8 T cells. IL-13 has a strong involvement in allergic inflammation and parasitic clearing and in cancer models has been shown to have either inhibitory or stimulatory activity depending on the tumor. In humans, IL-13 is found to play a role in isotype switching in B cells. IL-13 is implicating in down modulating macrophage activity, through the reduction of pro-inflammatory cytokines (IL-1, IL-6, IL-8, IL-10, IL-12)

Applications Reported

This eBio13A antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This eBio13A antibody has been tested by intracellular staining and flow cytometric analysis of Th2-polarized 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Halim TY, Krauss RH, Sun AC, Takei F. Lung natural helper cells are a critical source of Th2 cell-type cytokines in protease allergen-induced airway inflammation. *Immunity*. 2012 Mar 23;36(3):451-63. (**eBio13A**, FC, PubMed)

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Miyahara N, Takeda K, Kodama T, Joetham A, Taube C, Park JW, Miyahara S, Balhorn A, Dakhama A, Gelfand EW. Contribution of antigen-primed CD8+T cells to the development of airway hyperresponsiveness and inflammation is associated with IL-13. *J Immunol.* 2004 Feb 15;172(4):2549-58.

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Doherty TM, Kastelein R, Menon S, Andrade S, Coffman RL. Modulation of murine macrophage function by IL-13. *J Immunol.* 1993 Dec 15;151(12):7151-60.

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Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

11-0042 Anti-Mouse CD4 FITC (RM4-5)

14-8021 Mouse IL-2 Recombinant Protein

14-8041 Mouse IL-4 Recombinant Protein

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

48-4301 Rat IgG1 K Isotype Control eFluor® 450

65-0865 Fixable Viability Dye eFluor® 780

88-8824 Intracellular Fixation & Permeabilization Buffer Set