

IL-13 Monoclonal Antibody (eBio13A), eFluor 660, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), eFluor 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	eFluor® 660
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574279

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	20 Publications
Neutralization (Neu)	-	1 Publication

Product Specific Information

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.

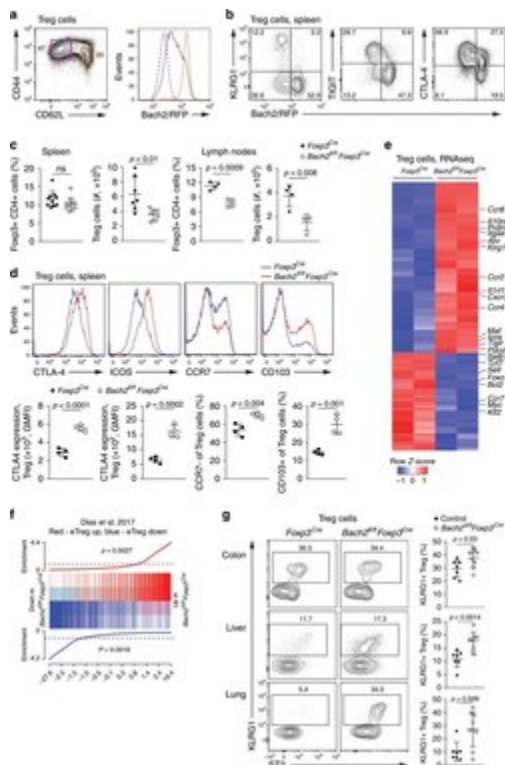
Applications Tested: This eBio13A antibody has been tested by intracellular staining and flow cytometric analysis of Th2 polarized mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume 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® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

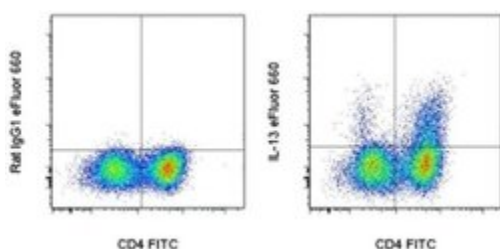
Advanced Verification Data



IL-13 Antibody (50-7133-82)

Fig. 4 GTR engagement drives ILC2-derived secretion and M2 macrophage polarization. A cohort of Rag2^{-/-} mice were fed on HFD and either treated with DTA-1 (1 mg/mouse) or isotype control by intraperitoneal injection every four days, n = 8. a The frequency of CD45⁺ cells of the VAT stromal vascular fraction (SVF) was quantified by flow cytometry. b Representative flow cytometry plots of VAT Lin⁻ CD45⁺ IL-7R⁺ ST2⁺ ILC2s in each group after 14 weeks of treatment, and corresponding quantitation presented as the number of ILC2s per gram of VAT. c Representative flow cytometry plots of intracellular IL-5 (top panel) and IL-13 (bottom panel) in VAT ILC2s and corresponding quantitation after 14 weeks of treatment, presented as frequency of positive ILC2s. d Gating strategy of macrophages in mouse VAT as CD45⁺ CD11b^{hi} F4/80^{hi}. e Quantification of the number of CD45⁺ CD11b^{hi} F4/80^{hi} macrophages per gram of VAT. f Representative flow cytometry plots of CD45⁺ CD11b^{hi} F4/80^{hi} CD206⁺ CD11c⁺ M2 macrophages in VAT and corresponding quantitation after 14 weeks of treatment. Error bars are the mean + SEM. Student's t-test, * p < 0.05, *** p < 0.001 Cell treatment validation info.

Product Images For IL-13 Monoclonal Antibody (eBio13A), eFluor 660, eBioscience™



IL-13 Antibody (50-7133-82) in Flow

BALB/c splenocytes were polarized under Th2 conditions for 3 days and then restimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) for 5 hours. Following restimulation, cells were fixed and permeabilized and then intracellularly stained with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.125 µg of Rat IgG1 K Isotype Control eFluor® 660 (Product # 50-4301-82) (left) or 0.125 µg of Anti-Mouse IL-13 eFluor® 660 (right). Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

View more figures on thermofisher.com

21 References

Flow Cytometry (20)

Nature communications

Arf1-mediated lipid metabolism sustains cancer cells and its ablation induces anti-tumor immune responses in mice.

"Published figure using IL-13 monoclonal antibody (Product # 50-7133-82) in Flow Cytometry"

Authors: Wang G,Xu J,Zhao J,Yin W,Liu D,Chen W,Hou SX

Species

Not Applicable

Dilution

Not Cited

Year

2020

Immunity

Metabolite-Sensing Receptor Ffar2 Regulates Colonic Group 3 Innate Lymphoid Cells and Gut Immunity.

"50-7133 was used in Flow cytometry/Cell sorting to demonstrate group 3 innate lymphoid cells are regulated by the metabolite-sensing receptor Ffar2."

Authors: Chun E,Lavoie S,Fonseca-Pereira D,Bae S,Michaud M,Hoveyda HR,Fraser GL,Gallini Comeau CA,Glickman JN,Fuller MH,Layden BT,Garrett WS

Species

Mouse

Dilution

Not Cited

Year

2019

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Neutralization (1)

Nature communications

Bacterial colonization dampens influenza-mediated acute lung injury via induction of M2 alveolar macrophages.

"Published figure using IL-13 monoclonal antibody (Product # 50-7133-82) in Neutralization"

Authors: Wang J,Li F,Sun R,Gao X,Wei H,Li LJ,Tian Z

Species

Not Applicable

Dilution

Not Cited

Year

2013

More applications with references on thermofisher.com

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