

IL-13 Monoclonal Antibody (eBio13A), Alexa Fluor 488, 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), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 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_2016708

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	23 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)

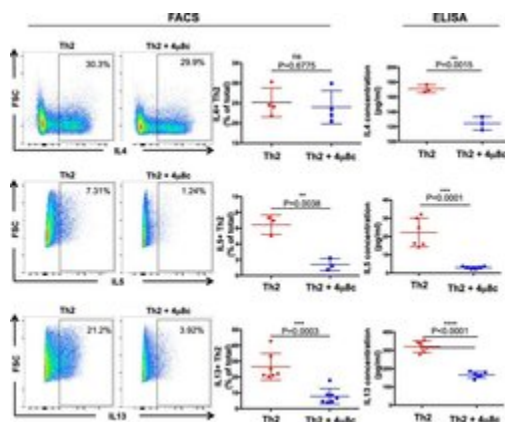
Applications Reported: This eBio13A antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This eBio13A antibody has been tested by intracellular staining and flow cytometric analysis of Th2 polarized CD4 cells. 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.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

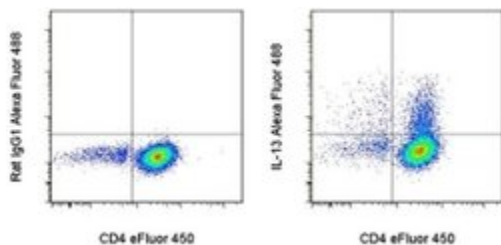
Advanced Verification Data



IL-13 Antibody (53-7133-82)

Fig. 6 IRE1a-XBP1 pathway is required for cytokine expression and secretion in Th2 lymphocyte. Naive T helper cells were cultured following Th2 activation condition in the presence of IRE1a inhibitor 4µ8c for 3 days, rested for 2 days, reactivated by coated plate, and analyzed by flow cytometry to detect intra-cellular cytokines IL4, IL5, and IL13 expression. Representative FACS profiles are displayed in the first two columns. The intra-cellular cytokine expression is compared in column 3, with three to seven independent biological replicates. Fourth column: cell culture supernatants from 4µ8c-treated or DMSO-treated Th2 were analyzed by ELISA to measure the cytokine concentration. FACS gating: lymphocytes > singlets > live cells > cytokines Cell treatment validation info.

Product Images For IL-13 Monoclonal Antibody (eBio13A), Alexa Fluor 488, eBioscience™



IL-13 Antibody (53-7133-82) in Flow

Intracellular staining of Th2-polarized and restimulated CD4+ splenocytes with Anti-Mouse CD4 PerCP-eFluor® 710 (Product # 46-0042-82) and 0.125 µg of Rat IgG1 K Isotype Control Alexa Fluor® 488 (Product # 53-4301-80) (left) or 0.125 µg of Anti-Mouse IL-13 Alexa Fluor® 488 (right).

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Flow Cytometry (23)

Nature communications

Tumors induce de novo steroid biosynthesis in T cells to evade immunity.

"53-7133 was used in Flow cytometry/Cell sorting to show that tumors induce de novo steroidogenesis in T lymphocytes to evade anti-tumor immunity."

Authors: Mahata B, Pramanik J, van der Weyden L, Polanski K, Kar G, Riedel A, Chen X, Fonseca NA, Kundu K, Campos LS, Ryder E, Duddy G, Walczak I, Okkenhaug K, Adams DJ, Shields JD, Teichmann SA

Species
Mouse

Dilution
1:400

Year
2020

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 # 53-7133-82) 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

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

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 # 53-7133-82) 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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