

IL-13 Monoclonal Antibody (eBio13A), PE-eFluor 610, 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), PE-eFluor 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	PE-eFluor® 610
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574654

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	11 Publications

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. In cancer models it 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.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

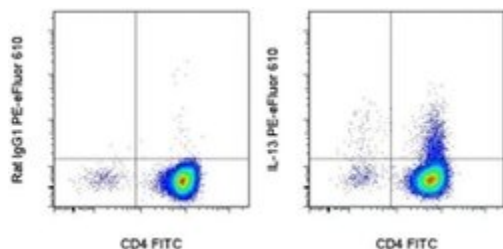
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For IL-13 Monoclonal Antibody (eBio13A), PE-eFluor 610, eBioscience™



IL-13 Antibody (61-7133-82) in Flow

CD4+ BALB/c splenocytes were stimulated for 6 days with plate-bound Anti-Mouse CD3e Functional Grade Purified (Product # 16-0031-82), soluble Anti-Mouse CD28 Functional Grade Purified (Product # 16-0281-82), Mouse IL-2 Recombinant Protein (Product # 14-8021-64), and Mouse IL-4 Recombinant Protein (Product # 14-8041-80). Cells were then either non-restimulated (left) or restimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) for 5 hours (right). Following restimulation, cells were fixed and permeabilized using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and then stained with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.5 μ g of Anti-Mouse IL-13 PE-eFluor 610. Viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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11 References

Flow Cytometry (11)

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 # 61-7133-82) 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

Nature communications

Costimulation of type-2 innate lymphoid cells by GITR promotes effector function and ameliorates type 2 diabetes.

"Published figure using IL-13 monoclonal antibody (Product # 61-7133-82) in Flow Cytometry"

Authors: Galle-Treger L,Sankaranarayanan I,Hurrell BP,Howard E,Lo R,Maazi H,Lewis G,Banie H,Epstein AL,Hu P,Rehan VK,Gilliland FD,Allayee H,Soroosh P,Sharpe AH,Akbari O

Species

Not Applicable

Dilution

Not Cited

Year

2019

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