

# IL-13 Monoclonal Antibody (eBio13A), APC-eFluor 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	APC-eFluor® 780
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_2716964

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	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. 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 0.125 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

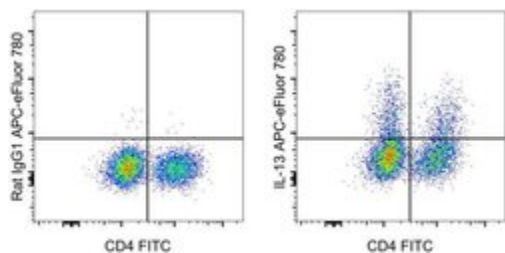
APC-eFluor™ 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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 (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser

## Product Images For IL-13 Monoclonal Antibody (eBio13A), APC-eFluor 780, eBioscience™



### IL-13 Antibody (47-7133-82) in Flow

BALB/c splenocytes were stimulated for 3 days with plate-bound Anti-Mouse CD3ε 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 restimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-93) for 5 hours. Following restimulation, cells were fixed and permeabilized (Product # 88-8824-00) and then stained with Anti-Mouse CD4 FITC (Product # 11-0042-82) and 0.06 µg of Rat IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4301-82) (left) or 0.06 µg of Anti-Mouse IL-13 APC-eFluor® 780 (right). Viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

## 1 Reference

### Flow Cytometry (1)

#### Nature immunology

#### A regulatory T cell Notch4-GDF15 axis licenses tissue inflammation in asthma.

"47-7133 was used in Flow cytometry/Cell sorting to find that interleukin-6- and STAT3 transcription factor-dependent upregulation of Notch4 receptor on lung tissue regulatory T (Treg) cells is necessary for allergens and particulate matter pollutants to promote airway inflammation."

Authors: Harb H, Stephen-Victor E, Crestani E, Benamar M, Massoud A, Cui Y, Charbonnier LM, Arbag S, Baris S, Cunningham A, Leyva-Castillo JM, Geha RS, Mousavi AJ, Guennevig B, Schmitz-Abe K, Sioutas C, Phipatanakul W, Chatila TA

Species  
Mouse

Dilution  
1:300

Year  
2020

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