IL-13 Monoclonal Antibody (eBio13A), PE-Cyanine7, 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-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	PE-Cyanine7
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_2573530

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	23 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 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 of stimulated mouse splenocytes. This can be used at less than or equal to 0.5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

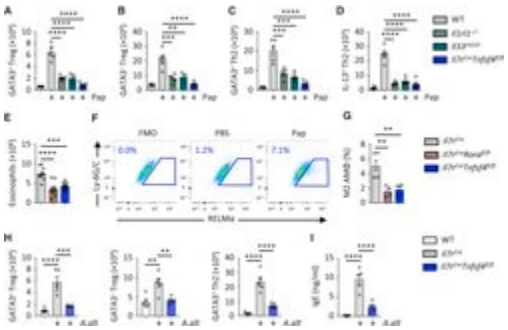
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore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

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

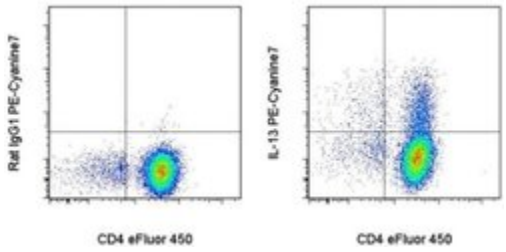
Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



IL-13 Antibody (25-7133-82)
Figure 6 OX40L on ILC2s Orchestrates Adaptive Type 2 Immunity to Allergens (A-D) Mice of the specified genotypes were treated with PBS or papain (Pap) (i.n., day 0 and 1), followed by quantification of lung Th2, GATA3 + Treg, and GATA3 - Treg cells on day 5 (A-C). Whole lung cell suspensions were re-stimulated with PMA and ionomycin, followed by quantification of IL-13 + Th2 cells by intracellular staining (D). (E-G) Mice were treated with papain on days 0, 1, 14, and 21, followed by quantification on day 24 of lung eosinophils (E), and detection (F) and quantification (G) of RELMalpha + M2 alveolar (CD45 + SiglecF + CD11c + CD11b - F4/80 +) macrophages (MPhi). (H and I) Mice were treated with A. alternata (A.alt) (i.n., days 0 and 1), followed by quantification on day 9 of lung Th2, GATA3 + Treg, and GATA3 - Treg cells (H) and serum IgE concentration (I). Bar graphs indicate mean (+-SEM). (A)-(D), ANOVA, two repeat experiments; (E), ANOVA, three repeat experiments; (F) and (G), ANOVA, two repeat experiments, representative gate shown in (F); (H) and (I), ANOVA, two repeat experiments. ** p <= 0.01, *** p <= 0.001, **** p <= 0.0001. See also Figure S7 . Cell treatment validation info.

Product Images For IL-13 Monoclonal Antibody (eBio13A), PE-Cyanine7, eBioscience™



IL-13 Antibody (25-7133-82) in Flow
CD4+ BALB/c splenocytes were stimulated for 10-days under Th2 polarizing conditions. Cells were then restimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) for 5 hours. 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 eFluor® 450 (Product # 48-0042-82) and 0.25 µg of Rat IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4301-82) (left) or 0.25 µg of Anti-Mouse IL-13 PE-Cyanine7 (right). Viable cells, as determined by Fixable Viability Dye eFluor® 660 (Product # 65-0864-14), were used for analysis.

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23 References

Flow Cytometry (23)

British journal of pharmacology

Major histocompatibility complexes are up-regulated in glomerular endothelial cells via activation of c-Jun N-terminal kinase in 5/6 nephrectomy mice.

"25-7133 was used in Flow cytometry/Cell sorting to explore the mechanism underlying the up-regulation of major histocompatibility complex (MHC) proteins in glomerular endothelial cells in 5/6 nephrectomy mice."

Authors: Zhu D,Tang Q,Yu B,Meng M,Liu W,Li J,Zhu T,Vanhoutte PM,Leung SWS,Zhang Y,Shi Y

Species
Mouse

Dilution
1:100

Year
2020

Cell reports

T Cell-Intrinsic IRF5 Regulates T Cell Signaling, Migration, and Differentiation and Promotes Intestinal Inflammation.

"25-7133 was used in Flow cytometry/Cell sorting to identify a previously undefined key role for T cell-intrinsic IRF5. In mice, IRF5 in CD4+ T cells promotes Th1- and Th17-associated cytokines and decreases Th2-associated cytokines."

Authors: Yan J,Pandey SP,Barnes BJ,Turner JR,Abraham C

Species
Mouse

Dilution
Not Cited

Year
2020

View more Flow references on thermofisher.com

More applications with references on thermofisher.com