

# IL-13 Monoclonal Antibody (eBio13A), Brilliant Ultra Violet™ 737, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Brilliant Ultra Violet™ 737, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	Brilliant Ultra Violet™ 737
Excitation/Emission Max	350/740 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2896035

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	-

## 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 followed by flow cytometric analysis of stimulated mouse splenocytes using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol A: Two step protocol for intracellular (cytoplasmic) proteins" located at Flow Protocols . This may be used at less than or equal to 1.0 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.

Brilliant Ultra Violet™ 737 (BUV737) is a tandem dye that emits at 732 nm and is intended for use on cytometers equipped with an ultraviolet (355 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a

staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) or Brilliant Stain Buffer (Product # 00-4409) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

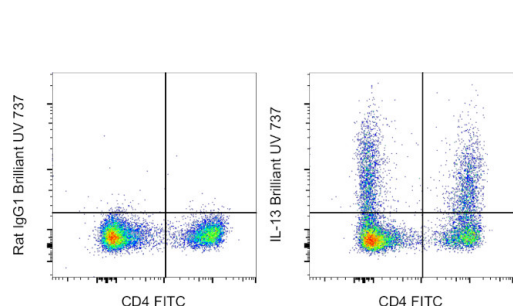
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations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

Our internal testing suggests that Brilliant Ultra Violet™ 737 (BUV737) is compatible with short-term methanol-based fixation, but should not be stored in buffers containing methanol for longer than one hour.

Excitation: 355 nm; Emission: 732 nm; Laser: Ultraviolet Laser.

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## Product Images For IL-13 Monoclonal Antibody (eBio13A), Brilliant Ultra Violet™ 737, eBioscience™



### IL-13 Antibody (367-7133-80) in Flow

BALB/c mouse splenocytes were stimulated for 72 hours with CD3e Monoclonal Antibody, Functional Grade (Product # 16-0031-85), CD28 Monoclonal Antibody, Functional Grade (Product # 16-0281-85), Mouse IL-2 Recombinant Protein, and Mouse IL-4 Recombinant Protein. Cells were then stained intracellularly, using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with CD4 Monoclonal Antibody, FITC (Product # 11-0042-82) and 0.5  $\mu$ g of Rat IgG1 kappa Isotype Control, Brilliant Ultra Violet 737 (BUV737) (Product # 367-4301-81) (left) or 0.5  $\mu$ g of IL-13 Monoclonal Antibody, Brilliant Ultra Violet 737 (BUV737) (right). Viable cells in the lymphocyte gate were used for analysis, as determined by LIVE/DEAD™ Fixable Aqua Dead Cell Stain Kit (Product # L34966).

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