

IL-13 Monoclonal Antibody (eBio13A), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio13A
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_763558

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	-	15 Publications
ELISA (ELISA)	1-4 µg/mL	-
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

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: The eBio13A antibody has been reported useful for ELISA and ELISPOT capture, as well as intracellular staining for flow cytometric analysis.

Applications Tested: The Functional Grade Purified eBio13A antibody has been tested by LAL assay to verify low endotoxin levels and has been tested for ELISA and ELISPOT capture.

The eBio13A antibody has been tested as the capture antibody in a sandwich ELISA (and ELISPOT) for analysis of mouse IL-13, in combination with the biotinylated eBio1316H antibody for detection (13-7135) and recombinant mouse IL-13 (14-8131) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1.0 - 4.0 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8.0 pg/mL should be included in each ELISA plate.

The Functional Grade Purified eBio1316H antibody (16-7135) is recommended for in vitro blocking studies.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

17 References

Immunohistochemistry (1)

Immunity HpARI Protein Secreted by a Helminth Parasite Suppresses Interleukin-33. "Published figure using IL-13 monoclonal antibody (Product # 16-7133-85) in Flow Cytometry" Authors: Osbourn M, Soares DC, Vacca F, Cohen ES, Scott IC, Gregory WF, Smyth DJ, Toivakka M, Kemter AM, le Bihan T, Wear M, Hoving D, Filbey KJ, Hewitson JP, Henderson H, González-Ciscar A, Errington C, Vermeren S, Astier AL, Wallace WA, Schwarze J, Ivens AC, Maizels RM, McSorley HJ	Species Not Applicable Dilution Not Cited Year 2017
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Flow Cytometry (15)

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 # 16-7133-85) 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
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Molecular medicine reports Ovalbumin induces natural killer cells to secrete Th2 cytokines IL5 and IL13 in a mouse model of asthma. "Published figure using IL-13 monoclonal antibody (Product # 16-7133-85) in Flow Cytometry" Authors: Chen Z, Wang L	Species Not Applicable Dilution Not Cited Year 2019
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[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 # 16-7133-85) 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
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