

# IL-13 Monoclonal Antibody (eBio1316H), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio1316H
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_763562

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	Assay-Dependent	7 Publications
Functional Assay (FN)	Assay-Dependent	3 Publications
Blocking Assay (BLOCK)	-	1 Publication
Immunostaining (IS)	Assay-dependent	-

## Product Specific Information

Description: The eBio1316H antibody reacts with mouse IL-13. The eBio1316H antibody is a neutralizing antibody. Mouse interleukin-13 (IL-13), originally designated p600, is a 11.6 kDa protein secreted by activated T helper cells, CD8+ T cells, and NK cells. IL-13 was originally identified in 1989 through differential hybridization of cDNA libraries prepared from T helper 1 and T helper 2 cells. IL-13 contains four cysteine residues, which form two intramolecular disulfide bonds. IL-13 shares many activities with IL-4; this relates to a requirement for IL-4Ralpha chain for signal transduction. The biological activities of IL-13 include suppression of macrophage cytotoxic activity, upregulation of IL-1RA expression, and suppression of inflammatory cytokine expression. IL-13 induces CD23 expression on B cells and enhances CD72, and expression of class II MHC gene products. Mouse IL-13 does not display the activities on T cells and B cell stimulatory effects which IL-4 exhibits. Mouse IL-13 is active on human and mouse cells.

Applications Reported: The eBio1316H antibody has been reported useful for neutralization, ELISA detection, and ELISPOT detection.

Applications Tested: The Functional Grade purified format of the eBio1316H antibody has been tested by LAL assay to verify low endotoxin level and by bioassay to quantitate neutralization of IL-13 biological activity.

For in vitro neutralization, the Functional Grade purified eBio1316H antibody at 0.04 µg/mL has been found to neutralize by 50% the biological effect of 7.5 ng/mL mouse IL-13 in an assay of TF-1 cell proliferation. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

Storage and handling: Use in a sterile environment.

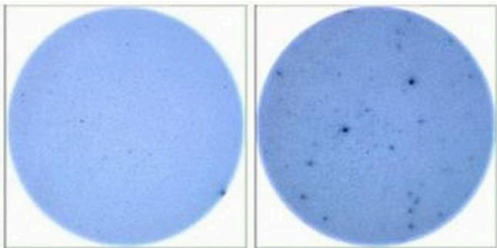
Filtration: 0.2 µm post-manufacturing filtered.

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.

**Product Images For IL-13 Monoclonal Antibody (eBio1316H), Functional Grade, eBioscience™**



**IL-13 Antibody (16-7135-81) in IS**  
Mouse IL-13 ELISPOT: Splenocytes were activated with immobilized Anti-Mouse CD3 (Product # 16-0031-82) and Anti-Mouse CD28 (Product # 16-0281-82) for 24 hrs in a Mouse IL-13 ELISPOT assay (right). Left well is medium alone control (no mitogen).

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Immunohistochemistry (1)

<p>Molecular immunology</p> <p><b>Contribution of IL-13 to early exocrinopathy in Id3-/- mice.</b></p> <p>"Published figure using IL-13 monoclonal antibody (Product # 16-7135-81) in Immunofluorescence"</p> <p>Authors: Mahlios J,Zhuang Y</p>	<p>Year</p> <p>2011</p>
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Immunocytochemistry (1)

<p>JCI insight</p> <p><b>BCG vaccination reduces the mortality of Mycobacterium tuberculosis-infected type 2 diabetes mellitus mice.</b></p> <p>"16-7135-81 was used in Neutralization and Immunocytochemistry to suggest a potentially novel role for BCG in preventing excess inflammation and mortality in T2DM mice infected with Mtb."</p> <p>Authors: Radhakrishnan RK,Thandi RS,Tripathi D,Paidipally P,McAllister MK,Mulik S,Samten B,Vankayalapati R</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Mouse</p>
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ELISA (1)

<p>Immunity</p> <p><b>Perinatal Activation of the Interleukin-33 Pathway Promotes Type 2 Immunity in the Developing Lung.</b></p> <p>"16-7135 was used in an ELISA assay to suggest enhanced neonatal Th2 cell skewing to inhaled allergens results from postnatal hyperactivity of the IL-33 axis during a period of maximal lung remodeling."</p> <p>Authors: de Kleer IM,Kool M,de Bruijn MJ,Willart M,van Moorlegghem J,Schuijs MJ,Plantinga M,Beyaert R,Hams E, Fallon PG,Hammad H,Hendriks RW,Lambrecht BN</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:10</p>
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Neutralization (7)

<p>JCI insight</p> <p><b>IL-13 is a driver of COVID-19 severity.</b></p> <p>"Published figure using IL-13 monoclonal antibody (Product # 16-7135-81) in Neutralization"</p> <p>Authors: Donlan AN,Sutherland TE,Marie C,Preissner S,Bradley BT,Carpenter RM,Sturek JM,Ma JZ,Moreau GB, Donowitz JR,Buck GA,Serrano MG,Burgess SL,Abhyankar MM,Mura C,Bourne PE,Preissner R,Young MK,Lyons GR, Loomba JJ,Ratcliffe SJ,Poulter MD,Mathers AJ,Day AJ,Mann BJ,Allen JE,Petri WA</p>	<p>Year</p> <p>2021</p>
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More applications with references on thermofisher.cn

- FN (3)
- BLOCK (1)

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