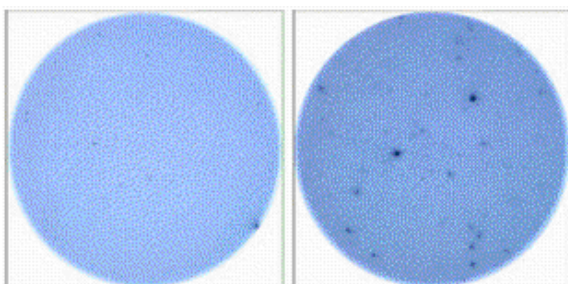


## Anti-Mouse IL-13 Functional Grade Purified

**Catalog Number:** 16-7135

**Also Known As:** Interleukin-13, IL13

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



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

### Product Information

**Contents:** Anti-Mouse IL-13 Functional Grade Purified

**REF** **Catalog Number:** 16-7135

**Clone:** eBio1316H

**Concentration:** 1 mg/ml

**Host/Isotype:** Rat IgG1, kappa

**Handling Conditions:** Use in sterile environment.

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

**Formulation:** aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### 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 ug/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.

### Related Products

14-8131 Mouse IL-13 Recombinant Protein

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

16-4301 Rat IgG1 K Isotype Control Functional Grade Purified

16-7139 Anti-Human IL-13 Functional Grade Purified (PVM13-1)

