

## LEAF™ Purified anti-human IL-13 Antibody

<b>Catalog# / Size</b>	530803 / 100 µg
<b>Clone</b>	Poly5308
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	ALRH, BHR1, P600, IL-13, MGC116786, MGC116788, MGC116789, IL13
<b>Isotype</b>	Goat Polyclonal IgG
<b>Description</b>	<p>Human IL-13 was initially cloned from cDNA libraries of activated T cells. IL-13 is an immunoregulatory cytokine secreted predominantly by activated T(H)2 cells, and it is a key mediator in the pathogenesis of allergic inflammation. IL-13 shares many functional properties with IL-4, and they share a common receptor subunit, the alpha subunit of the IL-4 receptor (IL-4R<math>\alpha</math>). IL-13 mediates its effects by interacting with a complex receptor system comprised of IL-4R<math>\alpha</math> and two IL-13 binding proteins, IL-13R<math>\alpha</math>1 and IL-13R<math>\alpha</math>2. Ligation of the IL-13 receptor complex results in signaling via the insulin receptor substrate (IRS)-1 and 2 and STAT-6 pathways. IL-13, like IL-4, is a cytokine produced by T(H)2 type helper T cells in response to signaling through the T cell antigen receptor and by mast cells and basophils upon cross-linkage of the high-affinity receptor for immunoglobulin E (IgE). IL-13 has been implicated in airway hypersensitivity and mucus hypersecretion, inflammatory bowel disease, and parasitic nematode expulsion.</p>

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Polyclonal
<b>Host Species</b>	Goat
<b>Immunogen</b>	Recombinant human IL-13
<b>Formulation</b>	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.1 EU/µg of the protein (< 0.01 ng/µg of the protein) as determined by the LAL test.
<b>Preparation</b>	The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
<b>Concentration</b>	The antibody is bottled at the concentration indicated on the vial. To obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.
<b>Storage &amp; Handling</b>	Upon receipt, store frozen at -20°C. Make small volume aliquots if needed and avoid repeated freeze-thaw cycles to prevent denaturing the antibody.
<b>Application</b>	<a href="#">Neut - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by neutralization of proliferation induced by recombinant human IL-13 (Cat. No. 571106) at 25 ng/mL on human TF-1 cells. ND <sub>50</sub> range: 0.5 - 3 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application.
<b>RRID</b>	AB_2922628 (BioLegend Cat. No. 530803)

### Antigen Details

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<b>Structure</b>	Cytokine
<b>Distribution</b>	IL-13 is secreted by activated T cells, Th2 cells, basophils, mast cells, activated eosinophils, and NK cells.
<b>Function</b>	IL-13 modulates human monocytes/macrophages and B cells. IL-13 induces an increase of MHC class II expression in human monocytes/macrophages, and direct inhibition of inflammatory cytokines such as TNF- $\alpha$ and IL-1 $\beta$ .

<b>Interaction</b>	IL-13 receptors are expressed on human B cells, basophils, eosinophils, mast cells, endothelial cells, fibroblasts, monocytes, macrophages, respiratory epithelial cells, and smooth muscle cells.
<b>Ligand/Receptor</b>	IL-4R $\alpha$ , IL-13R $\alpha$ 1, and IL-13R $\alpha$ 2
<b>Cell Type</b>	Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	Cytokines/Chemokines, Innate Immune Signaling

**Antigen References**

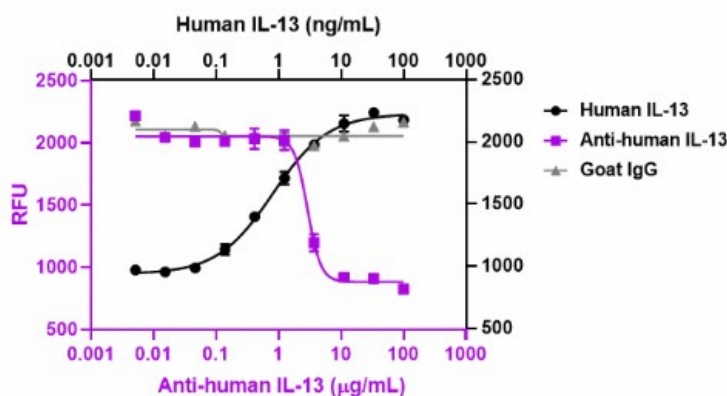
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2. Papasavvas E, *et al.* 2005. *J Immunol.* 175:5532-40.
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4. Hershey GK. 2003. *J Allergy Clin Immunol.* 111:677-90.
5. Harris J, *et al.* 2007. *Immunity.* 27:505-17.
6. LaPorte SL, *et al.* 2008. *Cell.* 132:259-72.

**Gene ID** [3596](#)

**Other Formats**

LEAF™ Purified anti-human IL-13

**Product Data**



Recombinant human IL-13 (Cat. No. 571106) (black circles) induces proliferation on human TF-1 cells. LEAF™ purified anti-human IL-13 (clone Poly5308) (purple squares) neutralizes the cell proliferation induced by recombinant human IL-13 at 25 ng/mL in human TF-1 cells in a dose-dependent manner, whereas the GoInVivo™ purified goat IgG isotype control (gray triangles) does not have the effect. ND<sub>50</sub> range: 0.5 – 3 µg/mL

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