

## Biotin anti-human IL-13 Antibody

<b>Catalog# / Size</b>	502001 / 50 µg
<b>Clone</b>	Poly5020
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Interleukin-13, NC30
<b>Isotype</b>	Rabbit Polyclonal IgG
<b>Description</b>	IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 lymphocytes. IL-13 shares 30% amino acid sequence homology with IL-4 and demonstrates similar biological activities. The biological activities of IL-13 include: suppression of macrophage cytotoxic activity, upregulation of IL-1RA expression, and suppression of proinflammatory cytokine secretion. The poly5020 polyclonal antibody reacts with human interleukin-13 (IL-13).

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Polyclonal
<b>Host Species</b>	Rabbit
<b>Immunogen</b>	Recombinant human IL-13
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.2% BSA and 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">ELISA Detection</a> , <a href="#">ELISPOT Detection</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">ELISA assay</a> . As a detection antibody in ELISA assays, dilute 60 µl of this biotinylated antibody into 12 ml of detection buffer for one 96 well microtiter plate assay. To obtain a linear standard curve, serial dilutions of human IL-13 recombinant protein ranging from 2000 to 8 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	<b>ELISA Detection or ELISPOT Detection:</b> The biotinylated Poly5020 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified JES10-5A2 (Cat. No. 501902/501910) antibody as the capture antibody.  This product may contain other non-IgG subtypes.
<b>Additional Product Notes</b>	This antibody can be used for 4 plates.
<b>Application References</b> (PubMed link indicates BioLegend citation)	1. Bailer, R.T., <i>et al.</i> , 1999. <i>J. Immunol.</i> 162 :7534. 2. Arva, E., <i>et al.</i> , 1999. <i>Scand. J. Immunol.</i> 49:411.
<b>Product Citations</b>	1. Yan J, <i>et al.</i> 2020. Cell Rep. 107820:31. <a href="#">PubMed</a>
<b>RRID</b>	AB_2124285 (BioLegend Cat. No. 502001)

### Antigen Details

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<b>Structure</b>	Cytokine; 12.5 kD
<b>Function</b>	Suppression of macrophage cytotoxic activity; upregulation of IL-1RA expression; suppression of IL-1, IL-6, IL-8, IL-10, IL-12, chemokines MCP, MIP-1; differentiation of B cells, monocytes
<b>Bioactivity</b>	Suppression of macrophage cytotoxic activity; upregulation of IL-1RA expression; suppression of IL-1, IL-6, IL-8, IL-10, IL-12, chemokines MCP, MIP-1; differentiation of B cells, monocytes
<b>Cell Sources</b>	Activated T helper cells, CD8 <sup>+</sup> T cells, mast cells, NK cells
<b>Cell Targets</b>	B cells, monocytes, macrophages, basophils
<b>Receptors</b>	Moderate affinity IL-13R $\alpha$ 1; high affinity heterodimer IL-13R $\alpha$ 1/IL-4R $\alpha$ also binds IL-4; both receptor complexes have $\gamma$ -subunit in common with IL-2R, IL-4R, IL-7R, IL-15R ; high affinity IL-13R $\alpha$ 2 incapable of signaling
<b>Cell Type</b>	Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	Cytokines/Chemokines
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Fitzgerald, K., <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.</li> <li>2. Hilton, D., <i>et al.</i> 1996. <i>P. Natl. Acad. Sci. USA</i> 93:497.</li> <li>3. Obiri, N., <i>et al.</i> 1995. <i>J. Biol. Chem.</i> 270:8797.</li> <li>4. Ochensberger, B., <i>et al.</i> 1996. <i>Blood</i> 88:3028.</li> </ol>
<b>Regulation</b>	IL-13R $\alpha$ 2 possible antagonist
<b>Gene ID</b>	<a href="#">3596</a>

## Related Protocols

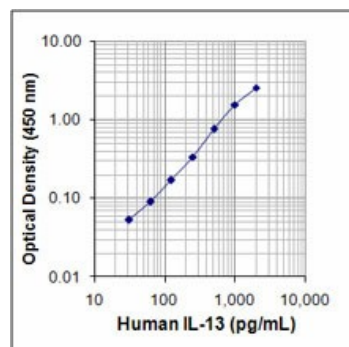
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

## Other Formats

Biotin anti-human IL-13

## Product Data



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