

## Biotin anti-human IL-1 $\alpha$ Antibody

<b>Catalog# / Size</b>	531304 / 50 $\mu$ g
<b>Clone</b>	Poly5313
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Interleukin-1 $\alpha$ , Lymphocyte-activating factor (LAF), Endogenous pyrogen (EP), Leukocyte endogenous mediator (LEM), Mononuclear cell factor (MCF/MNCF)(il-1 $\alpha$ ,il1 $\alpha$ )
<b>Isotype</b>	Goat Polyclonal Ig
<b>Description</b>	IL-1 refers to two proteins, IL-1 $\alpha$ and IL-1 $\beta$ which are the products of distinct genes, but which are recognized by the same cell surface receptors. IL-1 $\alpha$ is a potent immuno-modulator which mediates a wide range of immune and inflammatory responses. Recombinant human IL-1 $\alpha$ is an 18.0 kD protein containing 159 amino acids.

### 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-1 $\alpha$
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 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 - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by ELISA. For ELISA detection applications, a concentration of 0.25 $\mu$ g/mL is recommended. To obtain a linear standard curve, serial dilutions of IL-1 $\alpha$ recombinant protein ranging from 200 to 1.56 pg/mL is recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance.
<b>Application Notes</b>	<p>The biotinylated Poly5313 antibody is useful as a detection antibody for a sandwich ELISA assay, when used in conjunction with purified 343-3B3-14 (Cat. No. 500104) antibody as the capture antibody.</p> <p>Note: For human IL-1<math>\alpha</math> in cell culture supernatant, serum, plasma or other bodily fluids, BioLegend's LEGEND MAX™ Kits (Cat. No. 434907 &amp; 434908) are specially developed and recommended.</p>
<b>RRID</b>	AB_2686960 (BioLegend Cat. No. 531304)

### Antigen Details

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<b>Structure</b>	Cytokine
<b>Distribution</b>	Monocytes, tissue macrophages, Langerhans cells, dendritic cells, T and B cells, natural killer (NK) cells, large granular lymphocytes (LGL), vascular endothelium, smooth muscle, fibroblasts, thymic epithelia, astrocytes, microglia, gliomas, keratinocyte
<b>Function</b>	Upregulated by TNF- $\alpha$ , IFN- $\alpha$ , IFN- $\beta$ , IFN- $\gamma$ , bacterial endotoxins, viruses, mitogens, antigens; downregulated by IL-6, lipoproteins, lipids, and $\alpha$ 2-macroglobulin

<b>Interaction</b>	B cells, T cells, monocytes, dendritic cells
<b>Ligand/Receptor</b>	Type I IL-1R (CDw121a), Type II IL-1R (CDw121b)
<b>Cell Type</b>	Astrocytes, B cells, Dendritic cells, Endothelial cells, Fibroblasts, Langerhans cells, Macrophages, Monocytes, NK cells, T cells
<b>Biology Area</b>	Immunology
<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. <i>The Cytokine FactsBook</i>. Academic Press San Diego.</li> <li>2. Bomford R, <i>et al.</i> Eds. 1989. <i>Interleukin-1 inflammation and disease</i>. Elsevier New York.</li> <li>3. Brazel D, <i>et al.</i> 1991. <i>Biotechnol. Ther.</i> 2:241.</li> <li>4. Dinarello C <i>et al.</i> 1996. <i>Blood</i> 87:2095.</li> </ol>
<b>Gene ID</b>	<a href="#">3552</a>

## Related Protocols

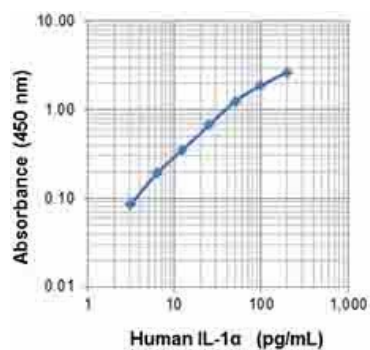
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

## Other Formats

Biotin anti-human IL-1 $\alpha$

## Product Data



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