

Biotin anti-human IL-1 β Antibody

Catalog# / Size	517403 / 50 μ g
Clone	Poly5174
Regulatory Status	RUO
Other Names	Interleukin-1 β , Catabolin, Hematopoietin-1 (H1), IFN β -inducing factor, Interleukin- β , Osteoclast activating factor (OAF)
Isotype	Goat Polyclonal IgG
Description	IL-1 refers to two proteins, IL-1 α and IL-1 β , which are the products of distinct genes, but which are recognized by the same cell surface receptors. IL-1 β is a potent immunomodulator which mediates a wide range of immune and inflammatory responses, including the activation of B and T cells.

Product Details

Verified Reactivity	Human
Antibody Type	Polyclonal
Host Species	Goat
Immunogen	Recombinant human IL-1 beta
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	ELISA Detection - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by ELISA assay . For use as an ELISA detection antibody, a concentration range of 0.25-1.0 μ g/ml is recommended. To obtain a linear standard curve, serial dilutions of human IL-1 β protein ranging from 1000 to 15.6 pg/ml are recommended for each ELISA plate when paired with H1b-27 (Cat. No. 511601). It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	ELISA Detection: The biotinylated Poly5174 is useful as the detection antibody in a sandwich ELISA assay, when used in conjunction with the purified H1b-27 antibody (Cat. No. 511601) as the capture antibody and recombinant human IL-1 β (Cat. No. 579409) as the standard. Note: For testing human IL-1 β in serum or plasma, BioLegend's LEGEND MAX™ Kits (Cat. No. 437007 & 437008) are specially developed and recommended.
RRID	AB_2561336 (BioLegend Cat. No. 517403)

Antigen Details

Structure	Cytokine, 17.3 kD.
Distribution	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, glioma, keratinocytes.
Interaction	B cells, T cells, monocytes.
Ligand/Receptor	Type I IL-1R (CDw121a), Type II IL-1R (CDw121b).

Cell Type	Astrocytes, B cells, Dendritic cells, Endothelial cells, Fibroblasts, Langerhans cells, Macrophages, Monocytes, NK cells, T cells
Biology Area	Cell Biology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Fitzgerald K, <i>et al.</i> Eds. 2001. The Cytokine FactsBook. Academic Press San Diego. 2. Bornford R, <i>et al.</i> Eds. 1989. Interleukin-1 inflammation and disease. Elsevier New York. 3. Brazel D, <i>et al.</i> 1991. <i>Biotechnol. Ther.</i> 2:241. 4. Dinarello C. 1996. <i>Blood</i> 87:2095.
Gene ID	3553

Related Protocols

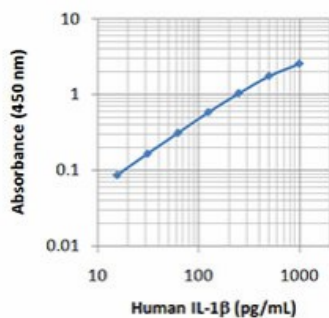
[Active Protocols: Sandwich ELISA - Video](#)

[Sandwich ELISA Protocol](#)

Other Formats

Biotin anti-human IL-1 β

Product Data



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