

Pacific Blue™ anti-human IL-1β Antibody

Catalog# / Size	511709 / 25 µg 511710 / 100 µg
Clone	H1b-98
Regulatory Status	RUO
Other Names	Interleukin-1β, H1, OAF, Catabolin, IFN γ -inducing factor(il-1b,il1b)
Isotype	Mouse IgG2b, κ
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 immuno-modulator which mediates a wide range of immune and inflammatory responses including the activation of B and T cells.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 2.0 µg per 10^6 cells in 100 µL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Violet Laser (405 nm)
Product Citations	<ol style="list-style-type: none">1. Shirai T, <i>et al.</i> 2016. J Exp Med. 213: 337 - 354. PubMed2. Kreutmair S, <i>et al.</i> 2021. Immunity. . PubMed3. Kuranda K, <i>et al.</i> 2018. J Clin Invest. 128:5267. PubMed
RRID	AB_2124351 (BioLegend Cat. No. 511709) AB_2124350 (BioLegend Cat. No. 511710)

Antigen Details

Structure	Cytokine; 17.3 kD (Mammalian)
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Bioactivity	Stimulates T cells, B cells, proliferation/activation of NK cells, fibroblasts, thymocytes, glioblastoma cells, astroglia, microglia
Cell Sources	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,
Cell Targets	B cells, T cells, monocytes
Receptors	Type I IL-1R (CDw121a), Type II IL-1R (CDw121b)
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none"> 1. Fitzgerald K, <i>et al.</i> Eds. 2001. <i>The Cytokine FactsBook</i>. Academic Press San Diego. 2. Bomford R, <i>et al.</i> Eds. 1989. <i>Interleukin-1 inflammation and disease</i>. 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.
Regulation	Upregulated by TNF- α , IFN- α , IFN- β , IFN- γ , bacterial endotoxins, viruses, mitogens, antigens; downregulated by IL-6, lipoproteins, lipids, and α_2 -macroglobulin
Gene ID	3553

Related Protocols

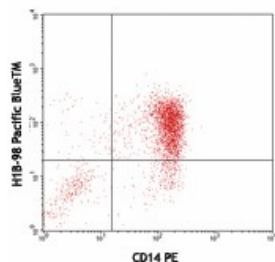
[Intracellular Cytokine Staining Protocol - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Biotin anti-human IL-1 β , FITC anti-human IL-1 β , Alexa Fluor® 647 anti-human IL-1 β , Pacific Blue™ anti-human IL-1 β

Product Data



LPS-stimulated (6 hours) human peripheral blood monocytes stained with CD14 PE and intracellularly stained with H1b-98 Pacific Blue™

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