

PerCP/Cyanine5.5 anti-human IL-6 Antibody

Catalog# / Size	501117 / 25 tests 501118 / 100 tests
Clone	MQ2-13A5
Regulatory Status	RUO
Other Names	Interleukin-6, B cell stimulating factor-2 (BSF-2), Cytotoxic T cell differentiation factor (CDF), Hepatocyte stimulating factor (HSF), Hybridoma/plasmacytoma growth factor (HPGF)
Isotype	Rat IgG1, κ
Description	IL-6 is a potent lymphoid cell growth factor that stimulates the growth and survival of certain B cells and T cells. IL-6 plays a role in host defense, acute phase reactions, immune response, and hematopoiesis. IL-6 is expressed by T cells, B cells, monocytes, fibroblasts, hepatocytes, endothelial cells, and keratinocytes.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	COS-7- expressed, recombinant human IL-6
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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	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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 nm)
Application Notes	ELISA or ELISPOT Capture^{1-3,7}: The purified MQ2-13A5 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated MQ2-39C3 antibody (Cat. No. 501202) as the detecting antibody. Neutralization^{1-3,5,6}: The Ultra-LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for neutralization of human IL-6 bioactivity (Cat. No. 501110). The MQ2-13A5 antibody can neutralize the bioactivity of natural or recombinant IL-6. Additional applications (for the relevant formats) include: intracellular flow cytometry ¹⁰ .
Additional Product Notes	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References	1. Abrams J, <i>et al.</i> 1992. <i>Immunol. Rev.</i> 127:5. 2. Abrams JS. 2001. <i>Curr. Protoc. Immunol.</i> Unit 6.20. 3. Gaines Das R, <i>et al.</i> 1993. <i>J. Immunol. Methods</i> 160:147.
(PubMed link indicates BioLegend citation)	

4. Enriquez J, *et al.* 2002. *Adv. Perit Dial.* 18:177.
5. Zou JP, *et al.* 1999. *J. Immunol.* 162:4882.
6. Wyant TL, *et al.* 1999. *Infect. Immun.* 67:1338.
7. Lesmeister MJ, *et al.* 2005. *Reprod. Biol. Endocrinol.* 3:74.
8. Terasaka Y, *et al.* 2010. *Invest. Ophthalmol. Vis. Sci.* 51:2441 [PubMed](#)
9. Girndt M, *et al.* 1998. *J. Am. Soc. Nephrol.* 9:1689.

Product Citations

1. Feuerer N, *et al.* 2022. *Biomedicines.* 10: [PubMed](#)

RRID

AB_2572039 (BioLegend Cat. No. 501117)
 AB_2572040 (BioLegend Cat. No. 501118)

Antigen Details

Structure	Neuropoietic cytokine family; 26 kD (Mammalian)
Bioactivity	Hematopoiesis; antigen-specific immune responses, inflammatory reactions; acute phase reaction
Cell Sources	T cells, B cells, macrophages, bone marrow stromal cells, fibroblasts, keratinocytes, mesangium, astrocytes, endothelial cells
Cell Targets	T cells, B cells, hepatocytes, cholinergic neurons
Receptors	Heterodimer IL-6R α (CD126)/IL-6R β (CD130; gp130)
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. Hirano T. 1998. <i>Int. Rev. Immunol.</i> 16:249. 3. Patterson P. 1992. <i>Curr. Opin. Neurobiol.</i> 2:94. 4. van Oers M, <i>et al.</i> 1993. <i>Ann. Hematol.</i> 66:219.
Regulation	Upregulated by IL-1, TNF, PDGF, IFN- β , TNF- α , NGF, and IL-17; downregulated by glucocorticoids IL-4 and TGF- β
Gene ID	3569

Related Protocols

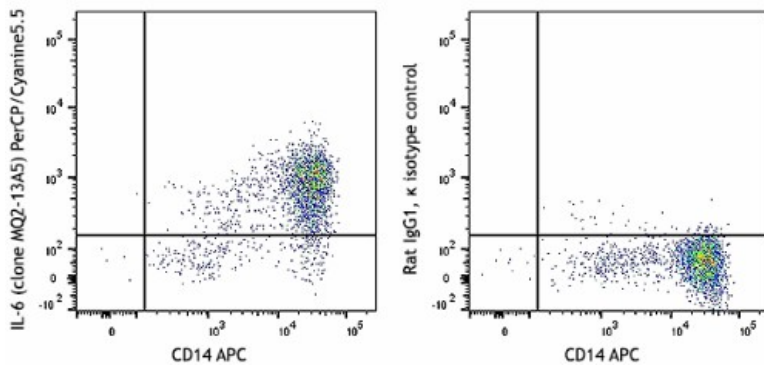
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-human IL-6, PE anti-human IL-6, Purified anti-human IL-6, APC anti-human IL-6, Pacific Blue™ anti-human IL-6, Purified anti-human IL-6 (Maxpar® Ready), PerCP/Cyanine5.5 anti-human IL-6, PE/Cyanine7 anti-human IL-6, Alexa Fluor® 647 anti-human IL-6, PE/Dazzle™ 594 anti-human IL-6, Ultra-LEAF™ Purified anti-human IL-6

Product Data



LPS-stimulated human peripheral blood mononuclear cells (6 hours) were surface stained with CD14 APC then intracellularly stained with anti-human IL-6 (Clone MQ2-13A5) PerCP/Cyanine5.5 (left), or rat IgG1, κ isotype control (right). Data shown was from gated monocyte population.

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