

APC anti-human IL-6 Antibody

Catalog# / Size	501112 / 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 APC 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.
Excitation Laser	Red Laser (633 nm)
Application Notes	<p>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.</p> <p>Neutralization^{1-3,5,6}: The Ultra-LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm 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.</p> <p>Additional applications (for the relevant formats) include: intracellular flow cytometry¹⁰.</p>

Application References

(PubMed link indicates BioLegend citation)

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2. Abrams JS. 2001. *Curr. Protoc. Immunol.* Unit 6.20.
3. Gaines Das R, *et al.* 1993. *J. Immunol. Methods* 160:147.
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Product Citations

1. Rizzo MD, *et al.* 2019. J Pharmacol Exp Ther. 371:191. [PubMed](#)
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3. Ciarlo E, *et al.* 2016. Sci Rep. 6:37944. [PubMed](#)
4. Santos R, *et al.* 2017. Stem Cell Reports. 1.553472222. [PubMed](#)
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12. Vivas-García Y, *et al.* 2020. Molecular Cell. 77(1):120-137.e9.. [PubMed](#)
13. Baguma R, *et al.* 2017. PLoS One. 10.1371/journal.pone.0184563. [PubMed](#)

RRID

AB_389222 (BioLegend Cat. No. 501112)

Antigen Details

Structure	Neuroipoietic 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. The Cytokine FactsBook. 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

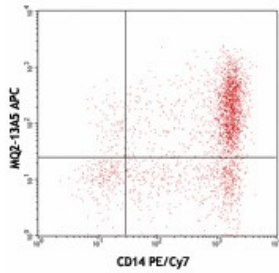
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[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 (6 hours) human peripheral blood monocytes surface stained with CD14 PE/Cy7 and intracellular stained with MQ2-13A5 APC

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