

Pacific Blue™ anti-human IL-6

Catalog # / Size: 3105565 / 25 tests
3105570 / 100 tests

Clone: MQ2-13A5

Isotype: Rat IgG1, κ

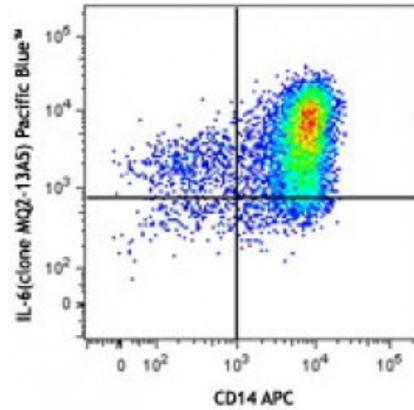
Immunogen: COS-7- expressed, recombinant human IL-6

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific

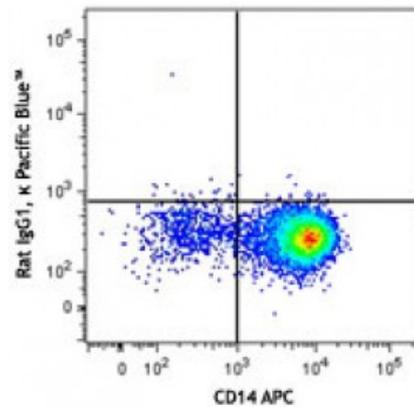


LPS-stimulated human peripheral blood monocytes (for 6 hours in the presence of monensin) were stained with CD14 APC, fixed, permeabilized, and then stained with IL-6 (clone MQ2-13A5) Pacific Blue™ (top) or rat IgG1, κ Pacific Blue™ isot

Applications:

Applications: Flow Cytometry

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



* 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.

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. The LEAF™ purified antibody is suggested for ELISPOT capture.

Neutralization^{1-3,5,6}: The 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.

Additional applications (for the relevant formats) include:

intracellular flow cytometry¹⁰.

Application References:

1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
2. Abrams JS. 2001. *Curr. Protoc. Immunol.* Unit 6.20.
3. Gaines Das R, *et al.* 1993. *J. Immunol. Methods* 160:147.
4. Enriquez J, *et al.* 2002. *Adv. Perit Dial.* 18:177.
6. Zou JP, *et al.* 1999. *J. Immunol.* 162:4882.
7. Wyant TL, *et al.* 1999. *Infect. Immun.* 67:1338.
8. Lesmeister MJ, *et al.* 2005. *Reprod. Biol. Endocrinol.* 3:74.
9. Terasaka Y, *et al.* 2010. *Invest. Ophthalmol. Vis. Sci.* 51:2441 [PubMed](#)
10. Girndt M, *et al.* 1998. *J. Am. Soc. Nephrol.* 9:1689.

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.

Antigen References:

1. Fitzgerald, K., *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
2. Hirano T. 1998. *Int. Rev. Immunol.* 16:249.
3. Patterson P. 1992. *Curr. Opin. Neurobiol.* 2:94.
4. van Oers M, *et*