SONY

Product Data Sheet

APC anti-human IL-2

Catalog # / Size: 3101550 / 100 tests
3101545 / 25 tests
3101555 / 50 µg

Clone: MQ1-17H12

Isotype: Rat IgG2a, κ

Immunogen: *E. coli* - expressed recombinant human IL-2

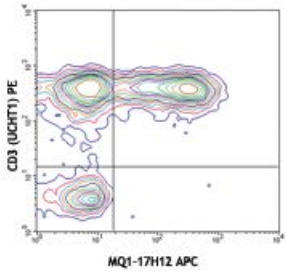
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.

Formulation: test sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA). µg size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: IV T171

Concentration: Lot-specific

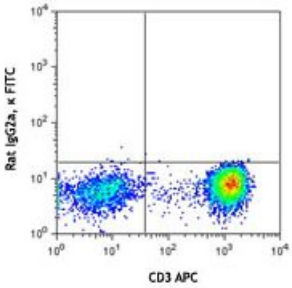


PMA + ionomycin-stimulated (6 hours) human peripheral blood lymphocytes intracellular stained with MQ1-17H12 APC and CD3 (UCHT1) PE

Applications:

Applications: Intracellular Staining for Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



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Application Notes:

Other or ELISPOT Capture[2,3]: The purified MQ1-17H12 antibody is useful as the capture antibody in a sandwich Other or ELISPOT assay, when used in conjunction with the biotinylated Poly5176 antibody (Cat. No. 517605) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture. For ELISPOT capture applications, a concentration range of 4-8 microg/ml is recommended.
Additional reported applications (for the relevant formats) include: immunoprecipitation2, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections[1,4-6,8], neutralization[13], and immunocytochemistry.

Note: For testing human IL-2 in serum or plasma, LEGEND MAX™ Kits (Cat. No. 431807 & 431808) are specially developed and recommended.

Application References:

1. Andersson J, *et al.* 1994. *Immunology* 83:16. (IHC)
2. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. (IP)
3. Abrams JS. 1995. *Curr. Prot. Immunol.* Unit 6.20.
4. Fernandez V, *et al.* 1994. *Eur. J. Immunol.* 24:1808. (IHC)
5. Skansen-Saphir U, *et al.* 1994. *Eur. J. Immunol.* 24:916. (IHC)
6. Andersson U, *et al. Detection and Quantification of Gene Expression*. New York:Springer-Verlag. (IHC)
7. Prussin C, *et al.* 1995. *J. Immunol. Methods.* 188:117.
8. Raqib R, *et al.* 2002. *Infect. Immun.* 70:3199. (IHC)
9. Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113. PubMed
10. Colleton BA, *et al.* 2009. *J Virol.* 83:6288. PubMed
11. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
12. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)
13. Yeap SK, *et al*. 2013. *BMC Complement Altern*. Med. 13:145. (Neut)
14. Wu Z, *et al.* 2015. *J Virol.* 89:6435. PubMed
15. Maksaereekul S, *et al.* 2009. *Vaccine.* 28:3754 (FC) PubMed

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Description: IL-2 is a potent lymphoid cell growth factor which exerts its biological activity primarily on T cells, promoting proliferation and maturation. Additionally, IL-2 has been found to stimulate growth and differentiation of B cells, NK cells, LAK cells, monocytes, and oligodendrocytes.

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Taniguchi T, *et al.* 1993. *Cell* 73:5.
3. Nistico G. 1993. *Prog. Neurobiol.* 40:463.
4. Waldmann T, *et al.* 1993. *Ann. NY Acad. Sci.* 685:603.

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