

Brilliant Violet 711™ anti-human IL-2

Catalog # / Size: 3101730 / 100 tests
3101725 / 25 tests

Clone: MQ1-17H12

Isotype: Rat IgG2a, κ

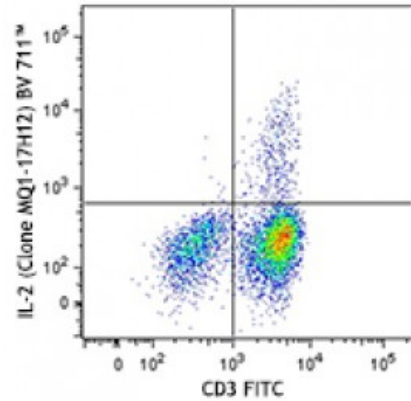
Immunogen: *E. coli*- expressed recombinant human IL-2

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ and unconjugated antibody.

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

Concentration: Lot-specific

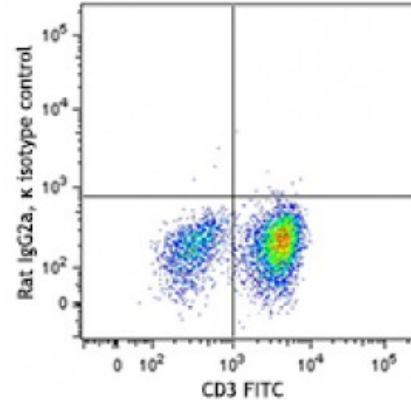


PMA + ionomycin-stimulated (6 hours) human peripheral blood lymphocytes (in the presence of monesin) were surface stained with CD3 FITC fixed, permeabilized, and then stained with IL-2 (clone MQ1-17H12) Brilliant Violet 711™ (top) or rat IgG2a, &κ

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.



Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.

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buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Application Notes:

ELISA or ELISPOT Capture^{2,3}: The purified MQ1-17H12 antibody is useful as the capture antibody in a sandwich ELISA 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}, neutralization¹³, and immunocytochemistry.

Note: For testing human IL-2 in serum or plasma, BioLegend's 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)

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.*