SONY

Product Data Sheet

Brilliant Violet 711™ anti-mouse IL-2

Catalog # / Size: 3119185 / 50 µg

Clone: JES6-5H4

Isotype: Rat IgG2b, κ

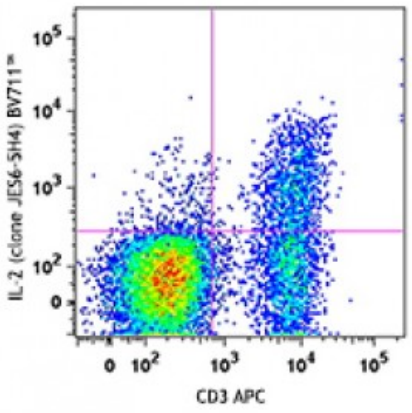
Immunogen: *E. coli*-expressed, recombinant mouse IL-2

Reactivity: Mouse

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) C57BL/6 mouse splenocytes (in the presence of Brefeldin A) were stained with CD3 APC, fixed, permeabilized and then stained with IL-2 (clone JES6-5H4) Brilliant Violet 711™ (top) or rat IgG2b, κ Brilliant Vio

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 ≤0.5 microg per million cells in 100 microL volume. 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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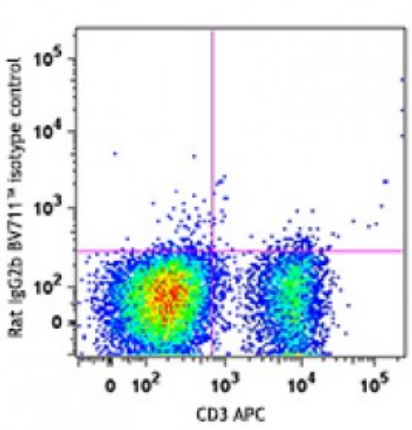

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Application Notes:

ELISA Detection[1-3] or ELISPOT Detection[4-6]: The biotinylated JES6-5H4 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified JES6-1A12 antibody (Cat. No. 503702/503704) as capture antibody and recombinant mouse IL-2 (Cat. No. 575409) as the standard.

Flow Cytometry[8-10]: The fluorochrome-labeled JES6-5H4 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-2 - producing cells within mixed cell populations.

Neutralization[1,7]: The LEAF™ purified antibody (Endotoxin in vivo and *in vitro* (Cat. No. 503812) is recommended for neutralization.

Additional reported applications (for the relevant formats) include: immunoprecipitation1, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections2, *in vivo* capture[7], and immunocytochemistry.

Note: For testing mouse IL-2 in serum, plasma or supernatant, BioLegend's ELISA MAX™ Sets (Cat. No. 431001 to 431006) are specially developed and recommended.

Application References:

1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
2. Sander B, *et al.* 1993. *J. Immunol. Meth.* 166:201.
3. Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.20.
4. Klinman D, *et al.* 1994. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.19.
5. Mo X, *et al.* 1995. *J. Virol.* 69:1288.
6. Karulin A, *et al.* 2000. *J. Immunol.* 164:1862.
7. Finkelman F, *et al.* 2003. *Curr. Prot. Immunol.* John Wiley & Sons New York. Unit 6.28.
8. Ko SY, *et al.* 2005. *J. Immunol.* 175:3309. PubMed
9. Kang SS and Allen PM. 2005. *J. Immunol.* 174:5382.
10. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366.

Description: IL-2 is a potent lymphoid cell growth factor which exerts its biological activity primarily on T cells. 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.*