Brilliant Violet 711™ anti-mouse IL-4

Catalog # / Size: 3120665 / 50 µg

> Clone: 11B11 Isotype: Rat IgG1, ĸ

Partially purified native mouse IL-4 Immunogen:

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

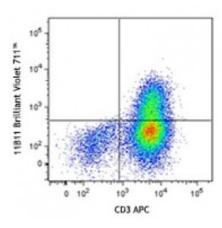
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Concentration: 0.5



PMA + ionomycin-stimulated (six hours, in presence of brefeldin A) Th2-polarized C57BL/6 T cells were surface stained with CD3 APC and then intracellularly stained with IL-4 (clone 11B11) Brilliant Violet 711 (top) or rat IgG1, κ Brilliant Vi

Applications:

Applications: Flow Cytometry

Recommended

Usage:

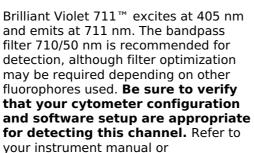
Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow

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

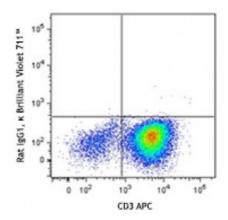
each application.



manufacturer for support. Brilliant Violet 711[™] is a trademark of Sirigen Group

Application Notes: **ELISA**^{1,2,10,13} or **ELISPOT5** Capture:

The purified 11B11 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated BVD6-24G2 antibody (Cat. No. 504202) as the



detecting antibody and recombinant mouse IL-4 (Cat. No. 575609) as the standard. The LEAF $^{\text{TM}}$ purified antibody is suggested for ELISPOT capture.

Neutralization^{1-2,9,12}: The 11B11 antibody can neutralize the bioactivity of natural or recombinant IL-4. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IL-4 bioactivity *in vivo* and *in vitro* (Cat. No. 504108).

Additional reported applications (for the relevant formats) include:

immunoprecipitation¹⁶, immunohistochemical staining of formalin-fixed paraffin-embedded tissue sections⁸ and paraformaldehyde-fixed, saponin-treated frozen tissue sections^{6,7}, and immunocytochemistry4.

Note: For testing mouse IL-4 in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 431101 to 431106) are specially developed and recommended.

Application References:

- 1. Shirai A, et al. 1994. Cytokine 6:329. (ELISA, Neut)
- 2. Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons New York. Unit 6.20. (ELISA, Neut)
- 3. Assenmacher M, et al. 1994. Eur. J. Immunol. 24:1097.
- 4. Openshaw P, et al. 1995. J. Exp. Med. 182:1357. (ICC)
- 5. Klinman D, et al. 1994. Curr. Prot. Immunol. John Wiley and Sons New York. Unit 6.19. (ELISA Capture)
- 6. Litton M, et al. 1994. J. Immunol. Methods 175:47. (IHC)
- 7. Andersson U, et al. 1999. Detection and quantification of gene expression. New York:Springer-Verlag. (IHC)
- 8. Fan WY, et al. 2001. Exp. Biol. Med. 226:1045. (IHC)
- 9. Hara M, et al. 2001. J. Immunol. 166:3789. (Neut)
- 10. Dzhagalov I, et al. 2007. J. Immunol. 178:2113. (ELISA)
- 11. Lawson BR, et al. 2007. J. Immunol. 178:5366.
- 12. Wang W, et al. 2007. J. Immunol. 178:4885. (Neut)
- 13. Xu G, et al. 2007. J. Immunol. 179:5358. (ELISA) PubMed
- 14. Ohnmacht C, et al. 2008. Blood 113:2816. PubMed
- 15. Charles N, et al. 2010. Nat. Med. 16:701. (FC) PubMed
- 16. Zavorotinskaya T, et al. 2003. Mol. Ther. 7:155. (IP)

Description:

IL-4 is a pleiotropic cytokine produced by activated T cells, mast cells, and basophils. IL-4 is a potent lymphoid cell growth factor which stimulates the growth and activation of certain B cells and T cells. IL-4 is important for regulation of T helper subset development.

Antigen References:

- 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
- 2. Boulay J, et al. 1992. Curr. Opin. Immunol. 4:294.
- 3. Dullens H, et al. 1991. In vivo 5:567.
- 4. Paul