SONY

Product Data Sheet

Brilliant Violet 711™ anti-human IL-17A

Catalog # / Size: 3161640 / 100 tests
3161635 / 25 tests

Clone: BL168

Isotype: Mouse IgG1, κ

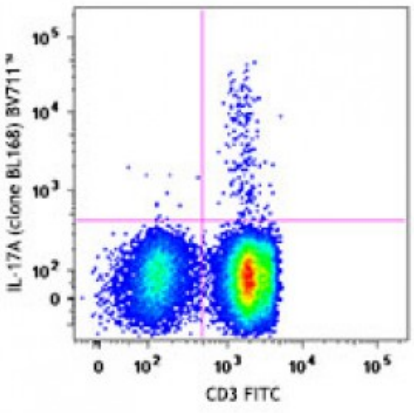
Immunogen: Recombinant full length human IL-17A

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 monensin) were surface stained with CD3 FITC, fixed, permeabilized and then stained with IL-17A (clone BL168) Brilliant Violet 711™ (top) or mouse IgG1, &kap

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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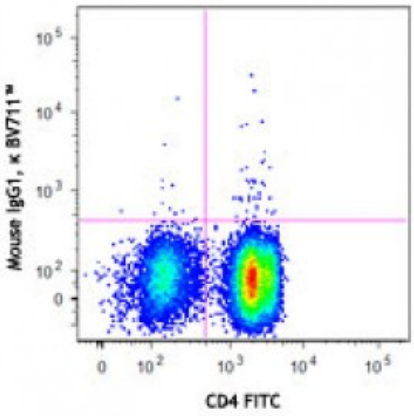

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Application References:

1. Mira RS, *et al.* 2015. *Hum Immunol.* 76:329. PubMed

Description: IL-17A is the founding member of the IL-17 family, a group of six structurally related pro-inflammatory cytokines. IL-17A, secreted by activated $CD4^+$ Th17 cell subpopulation, elicits multiple biological activities on a variety of cells including: the induction of IL-6, IL-8, G-CSF, and PGE2 production in epithelial, endothelial or fibroblasts; the enhancement of surface expression of ICAM-1 in fibroblasts; activation of NF-κB and costimulation of T cell proliferation. Recent studies demonstrated that, in mice, activated IL-17-secreting $CD4^+$ helper T cells (Th17 cells) mediate an autoimmune arthritis that clinically and immunologically resembles rheumatoid arthritis (RA). Human IL-17A shows 63%, 63%, and 72% amino acid sequence identity to rat IL-17A, mouse IL-17A, and a protein encoded by the ORF13 gene of herpesvirus Saimiri (HVS), respectively.

Antigen References:

1. Hirota K, *et al.* 2007. *J. Exp. Med.* 204:41.
2. Furuzawa-Carballeda J, *et al.* 2007. *Autoimmun. Rev.* 6:169.
3. Witowski J, *et al.* 2007. *Kidney Int.* 71:514.
4. Gaffen SL, *et al.*