

Brilliant Violet 750™ anti-human IL-17A Antibody

Catalog# / Size	512347 / 25 tests
Clone	BL168
Regulatory Status	RUO
Other Names	Interleukin IL-17A, IL-17, Cytotoxic T lymphocyte-associated antigen 8 (CTLA-8)
Isotype	Mouse IgG1, κ
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- κ B 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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant full length human IL-17A
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750™ excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 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 750™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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Excitation Laser

Violet Laser (405 nm)

Antigen Details

Structure	Cytokine; dimer; ~15 kD (Mammalian)
Bioactivity	Secretion of IL-6, IL-8, G-CSF, prostaglandin E2 by epithelial, endothelial or fibroblastic cells; stimulates cell migration, cord formation, and IL-6 secretion by stromal cells
Cell Sources	Activated T cell subpopulation
Cell Targets	Fibroblasts, epithelial and endothelial cells, stromal cells
Receptors	IL-17R
Cell Type	Tregs
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Cytokines/Chemokines
Antigen References	<ol style="list-style-type: none">1. Hirota K, <i>et al.</i> 2007. <i>J. Exp. Med.</i> 204:41.2. Furuzawa-Carballeda J, <i>et al.</i> 2007. <i>Autoimmun. Rev.</i> 6:169.3. Witowski J, <i>et al.</i> 2007. <i>Kidney Int.</i> 71:514.4. Gaffen SL, <i>et al.</i> 2006. <i>Vitam. Horm.</i> 74:255.5. Hymowitz S, <i>et al.</i> 2001. <i>EMBO J.</i> 20:5332.
Gene ID	3605

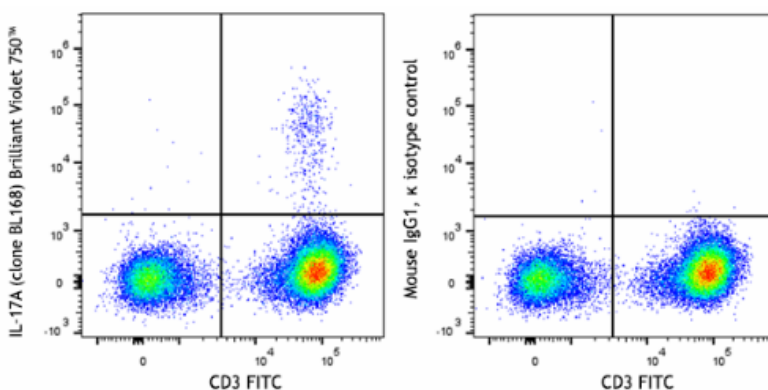
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Brilliant Violet 421™ anti-human IL-17A, Purified anti-human IL-17A, FITC anti-human IL-17A, PE anti-human IL-17A, Alexa Fluor® 488 anti-human IL-17A, Alexa Fluor® 647 anti-human IL-17A, Pacific Blue™ anti-human IL-17A, PerCP/Cyanine5.5 anti-human IL-17A, PE/Cyanine7 anti-human IL-17A, Alexa Fluor® 700 anti-human IL-17A, APC/Cyanine7 anti-human IL-17A, Brilliant Violet 570™ anti-human IL-17A, Brilliant Violet 605™ anti-human IL-17A, Brilliant Violet 711™ anti-human IL-17A, Brilliant Violet 510™ anti-human IL-17A, APC anti-human IL-17A, Purified anti-human IL-17A (Maxpar® Ready), PE/Dazzle™ 594 anti-human IL-17A, Brilliant Violet 785™ anti-human IL-17A, TotalSeq™-B1148 anti-human IL-17A, Spark UV™ 387 anti-human IL-17A, PE/Cyanine5 anti-human IL-17A, Brilliant Violet 650™ anti-human IL-17A, Brilliant Violet 750™ anti-human IL-17A, Spark PLUS UV395™ anti-human IL-17A, TotalSeq™-C1148 anti-human IL-17A Antibody

Product Data



Human peripheral blood lymphocytes were stimulated with Cell Activation Cocktail with Brefeldin A (Cat. No. 423303) for 4 hours. Cells were fixed, permeabilized, and then stained with anti-human CD3 (clone UCHT1) FITC and anti-human IL-17A (clone BL168) Brilliant Violet 750™ (left), or mouse IgG1, κ Brilliant Violet 750™ isotype control (right).

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