

Brilliant Violet 421™ anti-human IL-17A Recombinant Antibody

Catalog# / Size	385907 / 25 tests 385908 / 100 tests
Clone	QA18A46
Regulatory Status	RUO
Other Names	Interleukin 17A, IL-17, CTLA8
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 is the signature cytokine of Th17 subpopulation of CD4+ T cells. Neutrophils are also a major source of IL-17A. IL-17A can elicit multiple biological activities on a variety of cells. For instance, IL-17A can induce IL-6, IL-8, G-CSF, and PGE2 production from epithelial cells, endothelial cells, or fibroblast. IL-17A also further regulates neutrophil functions. Human IL-17A shares 63%, 63% and 72% amino acid sequence similarity 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	Recombinant
Host Species	Mouse
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 421™ 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 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the 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.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone QA18A46 can completely block the binding of clone BL168 on target cells.

RRID

AB_3720539 (BioLegend Cat. No. 385907)
AB_3720539 (BioLegend Cat. No. 385908)

Antigen Details

Structure	~15 kD cytokine
Distribution	Activated T cells, neutrophils
Function	Proinflammatory cytokine
Ligand/Receptor	IL-17A receptor
Cell Type	Lymphocytes, Neutrophils, T cells, Th17
Biology Area	Adaptive Immunity, Immunology, Innate Immunity
Molecular Family	Cytokines/Chemokines

Antigen References

1. Spriggs MK. 1997. *J Clin Immunol.* 17:366-9.
2. Kawaguchi M, *et al.* 2004. *J Allergy Clin Immunol.* 114:1265-73.
3. Furuzawa-Carballeda J, *et al.* 2007. *Autoimmun Rev.* 6:169-75.

Gene ID

[3605](#)

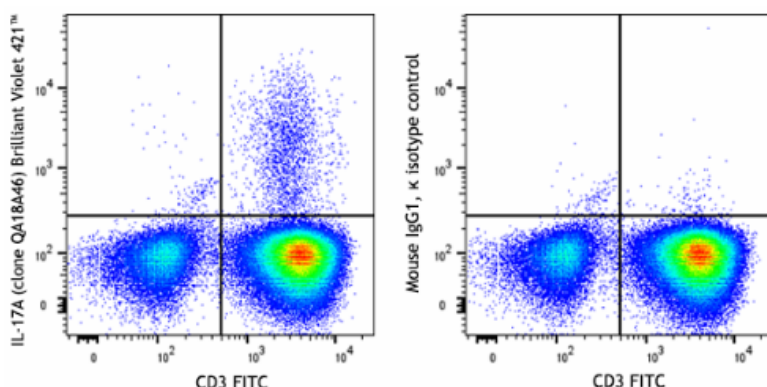
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human IL-17A Recombinant Antibody, PE anti-human IL-17A Recombinant Antibody, Purified anti-human IL-17A Recombinant Antibody, PE/Cyanine7 anti-human IL-17A Recombinant Antibody, Brilliant Violet 421™ anti-human IL-17A Recombinant Antibody, PerCP/Cyanine5.5 anti-human IL-17A Recombinant Antibody, APC/Fire™ 750 anti-human IL-17A Recombinant Antibody

Product Data



Human peripheral blood lymphocytes were stimulated with Cell Activation Cocktail (with Brefeldin A) (Cat. No. 423304) and surface stained with anti-human CD3 (clone UCHT-1) FITC. Cells were then fixed, permeabilized, and intracellularly stained with anti-human IL-17A recombinant (clone QA18A46) Brilliant Violet 421™ (left) or mouse IgG1, κ Brilliant Violet 421™ isotype control (right).

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