

Brilliant Violet 421™ anti-human CD199 (CCR9) Antibody

Catalog# / Size	358913 / 25 tests 358914 / 100 tests
Clone	L053E8
Regulatory Status	RUO
Other Names	GPR 9-6, GPR28, CDw199, Chemokine Receptor 9
Isotype	Mouse IgG2a, κ
Description	Human CD199, also known as CCR9, is a member of the G protein coupled receptor family and is involved in T cell development in the thymus and in the gut-associated immune response. It is highly expressed on different stages of thymocytes and upregulated on CD4 ⁺ CD8 ⁺ cells. Expression of CCR9 on γδ T cells in the intraepithelial and small intestine has been reported. The interaction of CCR9 with its ligand CCL25 (TECK, thymus-expressed chemokine) may direct the trafficking of developing T cells in the thymus and the generation of gut-specific immunological memory.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Cells transfected with human CCR9
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, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by 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.</p> <p>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.</p> <p>Learn more about Brilliant Violet™.</p> <p>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.</p>
Excitation Laser	Violet Laser (405 nm)
RRID	AB_2687387 (BioLegend Cat. No. 358913) AB_2687388 (BioLegend Cat. No. 358914)

Antigen Details

Structure	A member of G-protein coupled receptors which contains seven transmembrane domains. Human CCR9 has above 80% amino acid sequence homology with its mouse counterpart.
Distribution	CD4 ⁺ CD8 ⁺ thymocytes, γ/δ T cells, subset of memory T cells
Function	May direct the trafficking of developing T cells in the thymus and generation of gut-specific immunological memory; co-receptor for HIV-1
Ligand/Receptor	CCL25
Cell Type	T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Antigen References	1. Zaballos A, et al. 1999. <i>J. Immunol.</i> 162:5671. 2. Wurbel MA, et al. 2007. <i>J. Immunol.</i> 178:7598. 3. Wurbel MA, et al. 2006. <i>Eur. J. Immunol.</i> 36:73.
Gene ID	10803

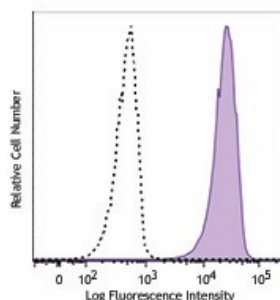
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD199 (CCR9), PE/Cyanine7 anti-human CD199 (CCR9), PE anti-human CD199 (CCR9), Purified anti-human CD199 (CCR9), PerCP/Cyanine5.5 anti-human CD199 (CCR9), Alexa Fluor® 647 anti-human CD199 (CCR9), Brilliant Violet 421™ anti-human CD199 (CCR9), Biotin anti-human CD199 (CCR9), PE/Dazzle™ 594 anti-human CD199 (CCR9), TotalSeq™-A0843 anti-human CD199 (CCR9), TotalSeq™-C0843 anti-human CD199 (CCR9), TotalSeq™-B0843 anti-human CD199 (CCR9) Antibody, KIRAVIA Blue 520™ anti-human CD199 (CCR9), APC/Fire™ 750 anti-human CD199 (CCR9)

Product Data



Human acute lymphoblastic leukemia cell line, MOLT-4, was stained with CD199 (CCR9) (clone L053E8) Brilliant Violet 421™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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