

Brilliant Violet 510™ anti-mouse CD186 (CXCR6) Antibody

Catalog# / Size	151137 / 50 µg
Clone	SA051D1
Regulatory Status	RUO
Other Names	CXCR6, Chemokine (C-X-C motif) receptor 6, BONZO, STRL33, chemokine receptor 6, CD 186, CXC-R6, CXCR-6, C-X-C chemokine receptor type 6
Isotype	Rat IgG2b, κ
Description	CD186, or CXCR6, is a 39 kD G-protein coupled chemokine receptor with seven transmembrane-spanning regions. Its ligand is CXCL16. It is expressed on different T cell subsets and is upregulated in activated T cells. Expression of CXCR6 is correlated with increased inflammatory responses and seems to contribute to liver fibrosis.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	mCXCR6-transfectants
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 510™ under optimal conditions.
Concentration	0.2 mg/mL
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	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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 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 510™ 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)
RRID	AB_3720572 (BioLegend Cat. No. 151137)

Antigen Details

Structure	G-protein coupled receptor 1 family.
Distribution	T cells and natural killer T (NKT) cells.
Function	Chemotaxis and the development of T cells.
Ligand/Receptor	CXCL16.
Cell Type	NKT cells, T cells
Biology Area	Cell Biology, Cell Motility/Cytoskeleton/Structure, Immunology, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors, GPCR
Antigen References	1. Kim CH, <i>et al.</i> 2001. <i>J. Clin. Invest.</i> 107:595. 2. Heesch K, <i>et al.</i> 2014. <i>PLoS One.</i> 9:5. 3. Wehr A, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:5226.
Gene ID	80901

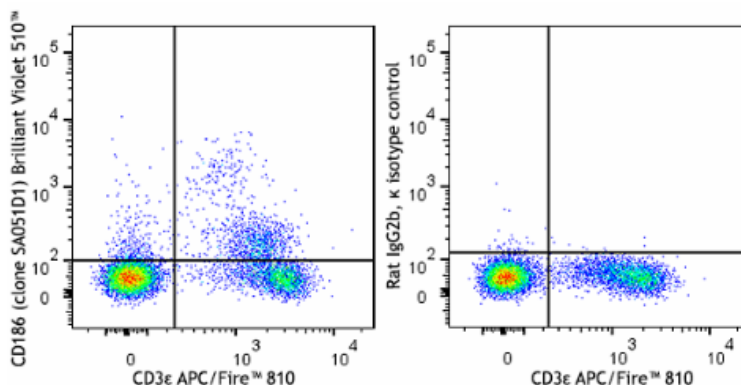
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC/Cyanine7 anti-mouse CD186 (CXCR6) Antibody, TotalSeq™-A0926 anti-mouse CD186 (CXCR6), APC/Fire™ 750 anti-mouse CD186 (CXCR6), TotalSeq™-C0926 anti-mouse CD186 (CXCR6), Spark Red™ 718 anti-mouse CD186 (CXCR6) (Flexi-Fluor™), Purified anti-mouse CD186 (CXCR6), PE anti-mouse CD186 (CXCR6), FITC anti-mouse CD186 (CXCR6), APC anti-mouse CD186 (CXCR6), Brilliant Violet 421™ anti-mouse CD186 (CXCR6), Biotin anti-mouse CD186 (CXCR6), PE/Dazzle™ 594 anti-mouse CD186 (CXCR6), PE/Cyanine7 anti-mouse CD186 (CXCR6), TotalSeq™-B0926 anti-mouse CD186 (CXCR6), PerCP/Fire™ 780 anti-mouse CD186 (CXCR6), PerCP/Fire™ 806 anti-mouse CD186 (CXCR6) Antibody, PerCP/Cyanine5.5 anti-mouse CD186 (CXCR6) Antibody, Brilliant Violet 711™ anti-mouse CD186 (CXCR6), Alexa Fluor® 647 anti-mouse CD186 (CXCR6), Brilliant Violet 510™ anti-mouse CD186 (CXCR6) Antibody, Brilliant Violet 605™ anti-mouse CD186 (CXCR6) Antibody, Brilliant Violet 650™ anti-mouse CD186 (CXCR6) Antibody, Brilliant Violet 785™ anti-mouse CD186 (CXCR6) Antibody, Ultra-LEAF™ Purified anti-mouse CD186 (CXCR6) (Flexi-Pure™)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) APC/Fire™ 810 and anti-mouse CD186 (CXCR6) (clone SA051D1) Brilliant Violet 510™ (left) or rat IgG2b, κ Brilliant Violet 510™ isotype control (right).

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