

Brilliant Violet 605™ anti-mouse CD183 (CXCR3)

Catalog # / Size: 1379575 / 50 µg

Clone: S18001A

Isotype: Rat IgG2b, κ

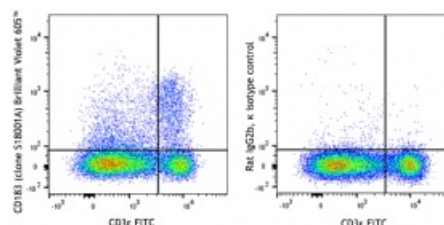
Immunogen: Mouse CXCR3-transfectants

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Concentration: 0.2 mg/mL



C57BL/6 splenocytes were stained with anti-mouse CD3ε FITC and anti-mouse CD183 (CXCR3) (clone S18001A) Brilliant Violet 605™ (left) or rat IgG2b, κ Isotype control Brilliant Violet 605™ (right).

Applications:

Applications: Flow Cytometry

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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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Description: CD183, also known as CXCR3, is a member of the C-X-C chemokine family, characterized by a pair of cysteine residues separated by a single amino acid. CXCR3 is a 38 kD seven pass transmembrane receptor coupled to G-protein. It mediates Ca²⁺ mobilization and chemotaxis in response to C-X-C chemokines, such as IP10 (CXCL10), MIG (CXCL9), I-TAC (CXCL11) and PF4 (CXCL4). CXCR3 is expressed primarily on activated T lymphocytes, NK cells, and some epithelial cells and endothelial cells. It is not expressed on B cells, monocytes, or granulocytes.

Antigen
References:

1. Farber JM. 1997. *J. Leukoc. Biol.* 61(3):\246-57.
2. Bonecchi R, *et al.* 1998. *J. Exp. Med.* 187(1):129-34.
3. Aota K, *et al.* 2018. *J. Oral. Pathol. Med.* 12756.
4. Kim B, *et al.* 2018. *Data. Brief.* 18:518-522.
5. Saahene RO, *et al.* 2018. *Cancer Biother. Radiopharm.* 2450.