

**Brilliant Violet 421™ anti-mouse CD183 (CXCR3)**

**Catalog # / Size:** 1379535 / 50 µg

**Clone:** S18001A

**Isotype:** Rat IgG2b, κ

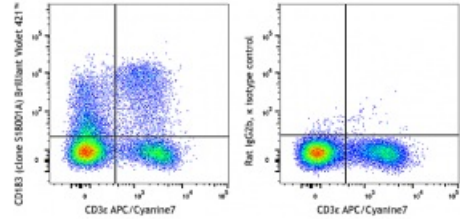
**Immunogen:** Mouse CXCR3-transfectants

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ 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 stained with CD3ε APC/Cyanine 7 and CD183 (CXCR3) (clone S18001A) Brilliant Violet 421™ (left) or rat IgG2b, κ Isotype control Brilliant Violet 421™ (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 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.

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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 Ca<sup>2+</sup> 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.