

Brilliant Violet 785™ anti-human CX3CR1

Catalog # / Size: 2308140 / 100 tests
2308135 / 25 tests

Clone: 2A9-1

Isotype: Rat IgG2b, κ

Immunogen: CX3CR1-EGFP fusion protein

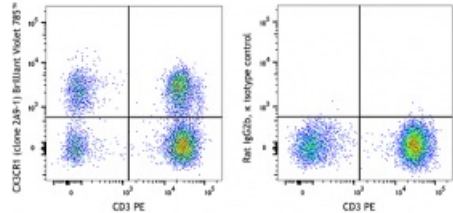
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and unconjugated antibody.

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

Workshop Number: VIII 80652

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 PE and CX3CR1 (clone 2A9-1) Brilliant Violet 785™ (left) or Rat IgG2b, κ Brilliant Violet 785™ isotype control (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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 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 785™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, and immunohistochemistry² of acetone-fixed frozen tissue sections, zinc-fixed paraffin-embedded sections and formalin-fixed paraffin-embedded sections.

- Application References:**
1. Nishimura M, *et al.* 2002. *J. Immunol.* 168:6173.
 2. Nanki T, *et al.* 2002. *Arthritis Rheum.* 46:2878.
 3. Kobayashi T, *et al.* 2007. *Inflamm. Bowel Dis.* 13:837.
 4. Beziat V, *et al.* 2011. *J. Immunol.* 186:6753. [PubMed](#).

Description: CX3CR1 is a G-protein-coupled seven-transmembrane chemokine receptor, also called GPR13 or V28. It is expressed on NK cells, T cell subset, monocytes/macrophages, dendritic cells, and some malignant epithelial cells. CX3CL1 (known also as fractalkine and neurotactin) is the ligand of CX3CR1. CX3CL1 is a unique transmembrane molecule with a CX3C-motif chemokine domain and a mucin-like stalk. CX3CL1 is expressed by activated-endothelial cells, neurons, and astrocytes. The interaction of CX3CR1 and its ligand mediates firm cell adhesion and migration.

Antigen
References:

1. Imai T, *et al.* 1997. *Cell.* 91:521.
2. Fong AM, *et al.* 1998. *J. Exp. Med.* 188:1413.
3. Auffray C, *et al.* 2009. *J. Exp. Med.* 206:595.