

Brilliant Violet 510™ anti-human CD195 (CCR5)

Catalog # / Size: 2395635 / 25 tests
2395640 / 100 tests

Clone: J418F1

Isotype: Rat IgG2b, κ

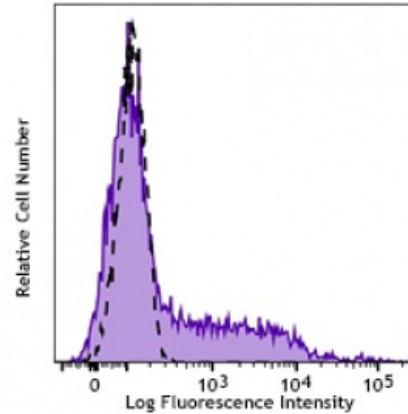
Immunogen: Human CCR5 transfectants

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

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

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD195 (clone J418F1) Brilliant Violet 510™ (filled histogram) or rat IgG2b, κ Brilliant Violet 510™ (open histogram).

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 μ l per million cells or 5 μ l per 100 μ l of whole blood. 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.

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Application References:

1. Samson M, *et al.* 1996. *Biochemistry* 35:3362.
2. Raport CJ, *et al.* 1996. *J. Biol. Chem.* 271:17161.
3. Combadiere C, *et al.* 1996. *J. Leukoc. Biol.* 60:147.
4. Deng H, *et al.*

Description: CD195, also known as CCR5, is a 45 kD G protein-coupled seven transmembrane CC-chemokine receptor. It binds to MIP-1 α , MIP-1 β , and RANTES and is expressed on a subset of T cells and monocytes. CCR5 mediates an intracellular signal

thought to induce cell differentiation and proliferation. CCR5 has also been shown to act as a co-receptor for R5 HIV-1 cell entry; modification of CCR5 by sulfation contributes to the efficiency of HIV-1 entry. Studies have shown CCR5 to play a role in a variety of other human diseases, ranging from infectious and inflammatory diseases to cancer.

**Antigen
References:**

1. Samson M, *et al.* 1996. *Biochemistry* 35:3362.
2. Raport CJ, *et al.* 1996. *J. Biol. Chem.* 271:17161.
3. Combadiere C, *et al.* 1996. *J. Leukoc. Biol.* 60:147.
4. Deng H, *et al.*