BioLegend
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Product Data Sheet

Alexa Fluor® 647 anti-human CD193 (CCR3)

Catalog # / Size: 310709 / 25 tests
310710 / 100 tests

Clone: 5E8

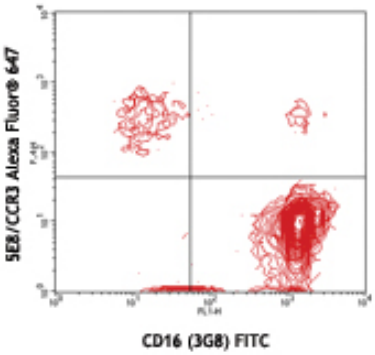
Isotype: Mouse IgG2b, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood granulocytes stained with CD16 FITC and 5E8/CCR3 Alexa Fluor® 647

Applications:

Applications: FC -*Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per 10^6 cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.
** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: The 5E8 antibody is useful for immunofluorescent staining and flow cytometric analysis of CCR3 expression.

Application References:
1. Beauvillian C, *et al.* 2011. *Blood* 117:1196. PubMed

Description: CC-chemokine receptor 3 (CCR3), also known as CC CKR3, MIP1-alpha receptor like-2, eotaxin receptor, and CD193, is a member of the G protein-coupled seven transmembrane receptors family. It binds to the CC chemokines eotaxin, eotaxin-2, and eotaxin-3 with high affinity. CCR3 has also been reported to bind RANTES, MCP-3, and MCP-4 with low affinity. CCR3 receptor is expressed on human eosinophils, basophils, mast cells, mononuclear phagocytes, platelets, $CD34^+$ hematopoietic progenitor cells, Th2-like lymphocytes, and keratinocytes. CCR3 is thought to play a role in allergic diseases such as bronchial asthma and allergic rhinitis. CCR3 is a co-receptor for HIV-1 and HIV-2, and the binding of eotaxin with CCR3 has been shown to inhibit HIV infection in some cell types.

Antigen References:
1. Gerard W, *et al.* 1996. *J. Exp. Med.* 183:2437.
2. Uguccioni C, *et al.* 1997. *J. Clin. Invest.* 100:1137.
3. Sallusto F, *et al.* 1997. *Science* 277:2005.
4. Loetscher P, *et al.* 2001. *J. Biol. Chem.* 276:2986.

Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Alexa Fluor® 647 Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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