

## Technical Data Sheet

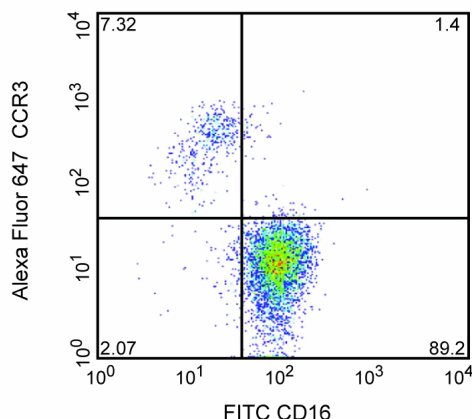
## Alexa Fluor® 647 Mouse Anti-Human CD193

## Product Information

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| Material Number: | 561745                                                    |
| Alternate Name:  | CCR3                                                      |
| Size:            | 25 µg                                                     |
| Concentration:   | 0.2 mg/ml                                                 |
| Clone:           | 5E8                                                       |
| Isotype:         | Mouse (C57BL/6) IgG2b, κ                                  |
| Reactivity:      | QC Testing: Human                                         |
| Storage Buffer:  | Aqueous buffered solution containing ≤0.09% sodium azide. |

## Description

Antibody 5E8 recognizes an epitope in CCR3. CCR3 is a G protein-linked, 7 transmembrane, chemokine receptor expressed on a variety of hematopoietic cells. Similar to CCR5 and CXCR4, CCR3 can be a co-receptor for HIV-1. It is primarily found on eosinophils and basophils during atopic conditions, dermatitis, allergic rhinitis, conjunctivitis and bronchial asthma. Chemokines like RANTES, Eotaxin, MCP-3, MIP1α have been reported to act as ligands for CCR3 and stimulate CCR3+ cells. Eotaxin stimulates Th2 cells expressing CCR3. Other studies describe HIV-1 specific T cell cytotoxicity can be mediated by RANTES and Eotaxin through CCR3. CCR3 expressed on dendritic cells may have a biological role on cell-cell interaction during antigen presentation. CCR3 has been clustered as CD193 in the HLDA VIIIth workshop.



Profile of anti-CCR3 (5E8) reactivity on peripheral blood granulocytes (eosinophils) analyzed by flow cytometry

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

## Application Notes

## Application

|                |                  |
|----------------|------------------|
| Flow cytometry | Routinely Tested |
|----------------|------------------|

## Suggested Companion Products

| Catalog Number | Name                                            | Size      | Clone  |
|----------------|-------------------------------------------------|-----------|--------|
| 557903         | Alexa Fluor® 647 Mouse IgG2b, κ Isotype Control | 100 tests | 27-35  |
| 560996         | FITC Mouse Anti-Human CD16                      | 25 tests  | 3G8    |
| 554656         | Stain Buffer (FBS)                              | 500 ml    | (none) |

## Product Notices

- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).

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4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
8. An isotype control should be used at the same concentration as the antibody of interest.

## References

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- Hadida F, Vieillard V, Autran B, Clark-Lewis I, Baggiolini M, Debre P. HIV-specific T cell cytotoxicity mediated by RANTES via the chemokine receptor CCR3. *J Exp Med*. 1998; 188(3):609-614. (Biology)
- Sallusto F, Mackay CR, Lanzavecchia A. Selective expression of the eotaxin receptor CCR3 by human T helper 2 cells. *Science*. 1997; 277(5334):2005-2007. (Biology)
- Sato K, Kawasaki H, Nagayama H, et al. CC chemokine receptors, CCR-1 and CCR-3, are potentially involved in antigen-presenting cell function of human peripheral blood monocyte-derived dendritic cells. *Blood*. 1999; 93(1):34-42. (Biology)
- Zimmermann N, Daugherty BL, Stark JM, Rothenberg ME. Molecular analysis of CCR-3 events in eosinophilic cells. *J Immunol*. 2000; 164(2):1055-1064. (Biology)