

APC/Cyanine7 anti-human CD193 (CCR3) Antibody

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| Catalog# / Size | 310711 / 25 tests 310712 / 100 tests |
| Clone | 5E8 |
| Regulatory Status | RUO |
| Other Names | CC CKR3, MIP1-alpha receptor like-2, eotaxin receptor, CD193, CCR3 |
| Isotype | Mouse IgG2b, κ |
| Description | CD193, also known as CC-chemokine receptor 3 (CCR3), CC CKR3, MIP1-alpha receptor like-2, and eotaxin receptor, 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. |

Product Details

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| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| 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. |
| Excitation Laser | Red Laser (633 nm) |
| 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. It has been observed that the 5E8 antibody clone can interact with PE/Cy7 antibody conjugates during multi-color staining, potentially leading to unwanted staining. This interaction can be resolved by sequentially staining with the 5E8 antibody first and then followed by the PE/Cy7 conjugate of interest. |
| Additional Product Notes | BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions. |
| Application References (PubMed link indicates BioLegend citation) | 1. Beauvillian C, <i>et al.</i> 2011. <i>Blood</i> 117:1196. PubMed |
| Product Citations | |

1. Gadkari M, *et al.* 2018. *Sci Data*. 5:180275. [PubMed](#)
2. Baumer Y, *et al.* 2020. *J Transl Med*. 18:29. [PubMed](#)
3. Simon SCS, *et al.* 2020. *Oncoimmunology*. 9:1727116. [PubMed](#)
4. Port JR, *et al.* 2020. *J Virol*. 94:. [PubMed](#)
5. Moshkovits I, *et al.* 2015. *Proc Natl Acad Sci U S A*. 112: 8708 - 8713. [PubMed](#)

RRID AB_10899737 (BioLegend Cat. No. 310711)
AB_10898162 (BioLegend Cat. No. 310712)

Antigen Details

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| Structure | G-protein coupled seven transmembrane domain receptor, 356 amino acids |
| Distribution | Eosinophils, basophils, mast, mononuclear phagocytes, platelets, CD34 ⁺ hematopoietic progenitor, Th2, keratinocytes |
| Function | Co-receptor for HIV-1 and HIV-2, allergy |
| Receptors | Eotaxin, eotaxin-2, eotaxin-3 |
| Cell Type | Eosinophils, Erythrocytes, Hematopoietic stem and progenitors, Macrophages, Mast cells, Thymocytes |
| Biology Area | Immunology |
| Molecular Family | CD Molecules, Cytokine/Chemokine Receptors, GPCR |
| Antigen References | <ol style="list-style-type: none">1. Gerard W, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 183:2437.2. Uguccioni C, <i>et al.</i> 1997. <i>J. Clin. Invest.</i> 100:1137.3. Sallusto F, <i>et al.</i> 1997. <i>Science</i>. 277:2005.4. Loetscher P, <i>et al.</i> 2001. <i>J. Biol. Chem.</i> 276:2986. |
| Regulation | Upregulated by high affinity Fc IgE receptor ligation (mast cells), RANTES (keratinocytes), IFN γ (monocytes, neutrophils), HIV tat protein (basophils), IL-3, IL-5 and GM-CSF (CD34 ⁺ progenitor cells), IL-2 and IL-4(T cells). Downregulated by IL- |
| Gene ID | 1232 |

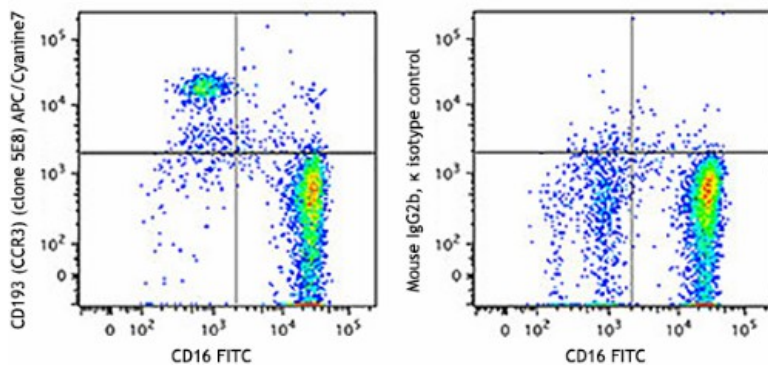
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD193 (CCR3), PE anti-human CD193 (CCR3), Brilliant Violet 605™ anti-human CD193 (CCR3), APC anti-human CD193 (CCR3), Alexa Fluor® 647 anti-human CD193 (CCR3), APC/Cyanine7 anti-human CD193 (CCR3), Brilliant Violet 421™ anti-human CD193 (CCR3), PerCP/Cyanine5.5 anti-human CD193 (CCR3), FITC anti-human CD193 (CCR3), Brilliant Violet 510™ anti-human CD193 (CCR3), Biotin anti-human CD193 (CCR3), APC/Fire™ 750 anti-human CD193 (CCR3), PE/Dazzle™ 594 anti-human CD193 (CCR3), TotalSeq™-A0397 anti-human CD193 (CCR3), TotalSeq™-C0397 anti-human CD193 (CCR3), Brilliant Violet 711™ anti-human CD193 (CCR3) Antibody, TotalSeq™-D0397 anti-human CD193 (CCR3)

Product Data



Human peripheral blood leukocytes were stained with CD16 FITC and CD193 (CCR3) (clone 5E8) APC/Cyanine7 (left) or mouse IgG2b, κ isotype control (right). Data shown was generated from granulocyte population gating.

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