

## APC/Cyanine7 anti-human CX3CR1 Antibody

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|--------------------------|--|
| <b>Catalog# / Size</b>   | 341615 / 25 tests<br>341616 / 100 tests  |
| <b>Clone</b>             | 2A9-1  |
| <b>Regulatory Status</b> | RUO  |
| <b>Other Names</b>       | V28, GPR13, Chemokine C-X3-C receptor 1  |
| <b>Isotype</b>           | Rat IgG2b, κ   |
| <b>Description</b>       | 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. |

### Product Details

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|---|---|
| <b>Verified Reactivity</b>                        | Human   |
| <b>Reported Reactivity</b>                        | African Green, Cynomolgus, Rhesus   |
| <b>Antibody Type</b>                              | Monoclonal  |
| <b>Host Species</b>                               | Rat   |
| <b>Immunogen</b>                                  | CX3CR1-EGFP fusion protein  |
| <b>Formulation</b>                                | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)   |
| <b>Preparation</b>                                | The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.   |
| <b>Concentration</b>                              | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)  |
| <b>Storage &amp; Handling</b>                     | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>   |
| <b>Application</b>                                | <a href="#">FC - Quality tested</a>   |
| <b>Recommended Usage</b>                          | Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.  |
| <b>Excitation Laser</b>                           | Red Laser (633 nm)  |
| <b>Additional Product Notes</b>                   | 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 <a href="#">Technical Service</a> if you have any questions.  |
| <b>Application References</b>                     | <ol style="list-style-type: none"> <li>1. Nishimura M, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:6173.</li> <li>2. Nanki T, <i>et al.</i> 2002. <i>Arthritis Rheum.</i> 46:2878.</li> <li>3. Kobayashi T, <i>et al.</i> 2007. <i>Inflamm. Bowel Dis.</i> 13:837.</li> <li>4. Beziat V, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:6753. <a href="#">PubMed</a>.</li> </ol> |
| <b>(PubMed link indicates BioLegend citation)</b> |   |
| <b>Product Citations</b>                          | <ol style="list-style-type: none"> <li>1. Vera Aguilera J, <i>et al.</i> 2020. <i>Melanoma Res.</i> 30:364. <a href="#">PubMed</a></li> <li>2. Yan Y, <i>et al.</i> 2018. <i>JCI Insight.</i> 3. <a href="#">PubMed</a></li> </ol>  |
| <b>RRID</b>                                       | AB_2572166 (BioLegend Cat. No. 341615)<br>AB_2572167 (BioLegend Cat. No. 341616)  |

## Antigen Details

|                           |  |
|---------------------------|--|
| <b>Structure</b>          | G-protein-coupled seven transmembrane receptor   |
| <b>Distribution</b>       | NK cells, T cell subset, monocytes/macrophages, dendritic cells  |
| <b>Function</b>           | cell adhesion and migration  |
| <b>Ligand/Receptor</b>    | CX3CL1 (Fractalkine, FKN, neurotactin)   |
| <b>Cell Type</b>          | Dendritic cells, Macrophages, Monocytes, NK cells, T cells   |
| <b>Biology Area</b>       | Cell Biology, Immunology, Neuroinflammation, Neuroscience, Neuroscience Cell Markers   |
| <b>Molecular Family</b>   | Cytokine/Chemokine Receptors, GPCR   |
| <b>Antigen References</b> | 1. Imai T, <i>et al.</i> 1997. <i>Cell.</i> 91:521.<br>2. Fong AM, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 188:1413.<br>3. Auffray C, <i>et al.</i> 2009. <i>J. Exp. Med.</i> 206:595. |
| <b>Gene ID</b>            | <a href="#">1524</a>   |

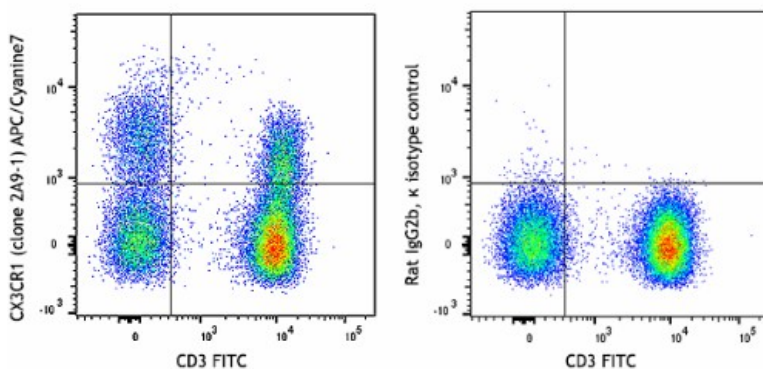
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PE/Cyanine7 anti-human CX3CR1, Purified anti-human CX3CR1, PE anti-human CX3CR1, FITC anti-human CX3CR1, Alexa Fluor® 647 anti-human CX3CR1, APC anti-human CX3CR1, PerCP/Cyanine5.5 anti-human CX3CR1, APC/Cyanine7 anti-human CX3CR1, Biotin anti-human CX3CR1, Brilliant Violet 510™ anti-human CX3CR1, Brilliant Violet 421™ anti-human CX3CR1, PE/Dazzle™ 594 anti-human CX3CR1, Brilliant Violet 650™ anti-human CX3CR1, Brilliant Violet 785™ anti-human CX3CR1, Brilliant Violet 711™ anti-human CX3CR1, APC/Fire™ 750 anti-human CX3CR1

## Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and CX3CR1 (clone 2A9-1) APC/Cyanine7 (left) or Rat IgG2b, κ APC/Cyanine7 isotype control (right).

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