

## Alexa Fluor® 647 anti-human CX3CR1 Antibody

<b>Catalog# / Size</b>	341607 / 25 tests 341608 / 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

<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 Alexa Fluor® 647 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.  * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.  Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.  <a href="#">View full statement regarding label licenses</a>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application References</b>	1. Nishimura M, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:6173. 2. Nanki T, <i>et al.</i> 2002. <i>Arthritis Rheum.</i> 46:2878. 3. Kobayashi T, <i>et al.</i> 2007. <i>Inflamm. Bowel Dis.</i> 13:837. 4. Beziat V, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:6753. <a href="#">PubMed</a> .
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Mandl M, <i>et al.</i> 2014. <i>PLoS One.</i> 9:112140. <a href="#">PubMed</a> 2. Appleby L, <i>et al.</i> 2013. <i>Immunol Lett.</i> 152:32. <a href="#">PubMed</a> 3. Nasiri B, <i>et al.</i> 2022. <i>Adv Healthc Mater.</i> 11:e2200890. <a href="#">PubMed</a>

RRID AB\_1626274 (BioLegend Cat. No. 341607)  
AB\_2087426 (BioLegend Cat. No. 341608)

## Antigen Details

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<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. 2. Fong AM, <i>et al.</i> 1998. <i>J. Exp. Med.</i> 188:1413. 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

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[Cell Surface Flow Cytometry Staining Protocol](#)

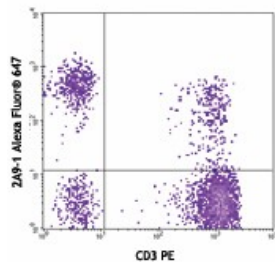
## Other Formats

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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

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Human peripheral blood lymphocytes stained with 2A9-1 Alexa Fluor® 647 and CD3 (OKT3) PE

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