

## Alexa Fluor® 700 anti-mouse/rat XCR1 Antibody

<b>Catalog# / Size</b>	148243 / 25 µg 148244 / 100 µg
<b>Clone</b>	ZET
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	GPR5, CCXCR1, mXCR1, Lymphotactin receptor, SCM1 receptor, XC chemokine receptor 1
<b>Isotype</b>	Mouse IgG2b, κ
<b>Description</b>	XCR1, also known as GPR5 or CCXCR1, is a 38 kD, G-protein coupled, seven transmembrane receptor, and the only member of the "C" chemokine receptor family. XCR1 mediates chemotaxis of XCL1 and XCL2 (lymphotactin-1 and -2), and defines a subset of CD8α <sup>+</sup> conventional dendritic cells capable of antigen cross-presentation.

### Product Details

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<b>Verified Reactivity</b>	Mouse, Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<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>	<p>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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining on frozen tissues <sup>2</sup> .
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Gurka S, <i>et al.</i> 2015. <i>Front Immunol.</i> 6:35. (FC)</li><li>2. Kitazawa Y, <i>et al.</i> 2019. <i>Front Immunol.</i> 10:1195. (FC, IHC-F)</li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3674998 (BioLegend Cat. No. 148243) AB_3674998 (BioLegend Cat. No. 148244)

## Antigen Details

<b>Structure</b>	Only member of the "C" chemokine receptor family, seven transmembrane receptor, coupled to G protein, 38 kD.
<b>Distribution</b>	Subset of CD8 $\alpha$ <sup>+</sup> conventional dendritic cells.
<b>Function</b>	Mediates chemotaxis to XCL1, defines a population of CD8 $\alpha$ <sup>+</sup> dendritic cells capable of antigen cross-presentation to CD8 <sup>+</sup> T cells.
<b>Ligand/Receptor</b>	XCL1 and XCL2.
<b>Cell Type</b>	Dendritic cells
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Signal Transduction
<b>Molecular Family</b>	Cytokine/Chemokine Receptors, GPCR
<b>Antigen References</b>	1. Yamazaki C, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:6071. 2. Shimizu K, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:5609. 3. Bachem A, <i>et al.</i> 2012. <i>Front. Immunol.</i> 3:214. 4. Crozat K, <i>et al.</i> 2011. <i>J. Immunol.</i> 187:4411.
<b>Gene ID</b>	<a href="#">23832</a> <a href="#">301086</a>

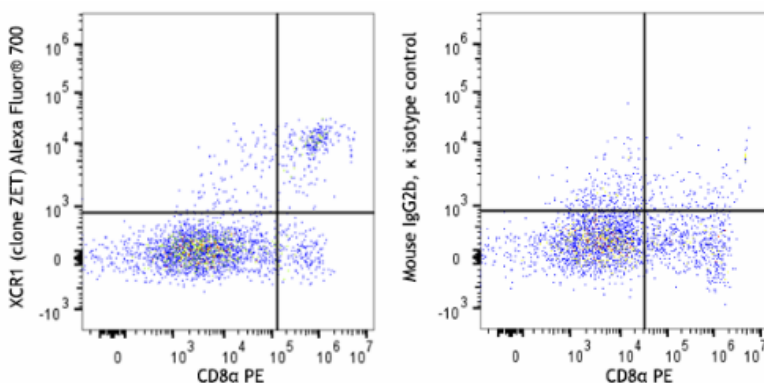
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PE anti-mouse/rat XCR1, Purified anti-mouse/rat XCR1, APC anti-mouse/rat XCR1, PerCP/Cyanine5.5 anti-mouse/rat XCR1, FITC anti-mouse/rat XCR1, Biotin anti-mouse/rat XCR1, Alexa Fluor® 647 anti-mouse/rat XCR1, Brilliant Violet 421™ anti-mouse/rat XCR1, Brilliant Violet 510™ anti-mouse/rat XCR1, Brilliant Violet 650™ anti-mouse/rat XCR1, APC/Cyanine7 anti-mouse/rat XCR1, Brilliant Violet 785™ anti-mouse/rat XCR1, TotalSeq™-A0568 anti-mouse/rat XCR1, TotalSeq™-C0568 anti-mouse/rat XCR1, TotalSeq™-B0568 anti-mouse/rat XCR1 Antibody, PE/Dazzle™ 594 anti-mouse/rat XCR1, Brilliant Violet 605™ anti-mouse/rat XCR1, Spark UV™ 387 anti-mouse/rat XCR1, PE/Cyanine7 anti-mouse/rat XCR1, Spark PLUS UV395™ anti-mouse/rat XCR1, Pacific Blue™ anti-mouse/rat XCR1, Alexa Fluor® 700 anti-mouse/rat XCR1, Brilliant Violet 711™ anti-mouse/rat XCR1, Brilliant Violet 570™ anti-mouse/rat XCR1, Spark Red™ 718 anti-mouse/rat XCR1 (Flexi-Fluor™), Spark Blue™ 574 anti-mouse/rat XCR1 (Flexi-Fluor™), Spark Blue™ 550 anti-mouse/rat XCR1 (Flexi-Fluor™), Spark YG™ 581 anti-mouse/rat XCR1 (Flexi-Fluor™), Spark YG™ 593 anti-mouse/rat XCR1 (Flexi-Fluor™) Antibody, Spark NIR™ 685 anti-mouse/rat XCR1 (Flexi-Fluor™) Antibody

## Product Data



Cells from collagenase-digested C57BL/6 mouse spleen were stained with anti-mouse CD11c (clone N418) FITC, anti-mouse CD8 $\alpha$  (clone 53-6.7) PE, and anti-mouse/rat XCR1 (clone ZET) Alexa Fluor® 700 (left) or mouse IgG2b,  $\kappa$  Alexa Fluor® 700 isotype control (right). Data shown was gated on the CD11c<sup>+</sup> population.

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