

APC anti-mouse CX3CR1 Recombinant Antibody

Catalog# / Size	153707 / 25 µg 153708 / 100 µg
Clone	QA16A03
Regulatory Status	RUO
Other Names	Chemokine (C-X3-C motif) receptor 1, Fractalkine receptor, GPR13, CCRL1, CMKBRL1, CMKDR1, V28
Isotype	Mouse IgG1, κ
Description	CX3CR1 is a 40 kD, G-protein coupled receptor, with seven transmembrane regions. CX3CR1 is expressed by resident and alternatively activated macrophages (M2), a subset of monocytes, dendritic cells (DCs), NK cells, a subset of memory T cells, and mast cells. CX3CR1 is involved in cell recruitment during inflammation and participates in cell adhesion and extravasation from blood vessels. Its ligand is CX3CL1, also known as fractalkine or neurotactin. CX3CR1 is also a coreceptor for HIV1 and variations in this gene leads to increased susceptibility to HIV. In the brain, it is expressed by glial cells, which interact with CX3CL1 expressed by neurons.

Product Details

Verified Reactivity	Mouse
Antibody Type	Recombinant
Host Species	Mouse
Immunogen	Mouse CX3CR1-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	This recombinant antibody clone is derived from clone SA011F11.
Product Citations	1. Jeong D, <i>et al.</i> 2021. eLife. 0.4166666666666667. PubMed
RRID	AB_2734223 (BioLegend Cat. No. 153707) AB_2734224 (BioLegend Cat. No. 153708)

Antigen Details

Structure	G-protein coupled receptor, 7 transmembrane regions, 40 kD.
Distribution	Resident and alternatively activated macrophages (M2), subset of monocytes, dendritic cells

(DCs), natural killer cells (NK), subset of memory T cells, mast cells, glial cells, and astrocytes.

Function	Involved in cell recruitment during inflammation, participates in cell adhesion and extravasation from blood vessels, coreceptor for HIV1.
Ligand/Receptor	CX3CL1 (fractalkine, neurotactin).
Cell Type	Astrocytes, Dendritic cells, Macrophages, Mast cells, Microglia, Monocytes, NK cells, T cells
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience, Neuroscience Cell Markers
Molecular Family	Cytokine/Chemokine Receptors, GPCR
Antigen References	<ol style="list-style-type: none">1. Hamon P, <i>et al.</i> 2017. <i>Blood</i>. 129:12962. Afik R, <i>et al.</i> 2016. <i>J Exp Med.</i> 213:23153. Mass E, <i>et al.</i> 2016. <i>Science.</i> 353 pii: aaf42384. Safaiyan S, <i>et al.</i> 2016. <i>Nat Neurosci.</i> 19:9955. Peng J, <i>et al.</i> 2016. <i>Nat Commun.</i> 7:12029

Gene ID [13051](#)

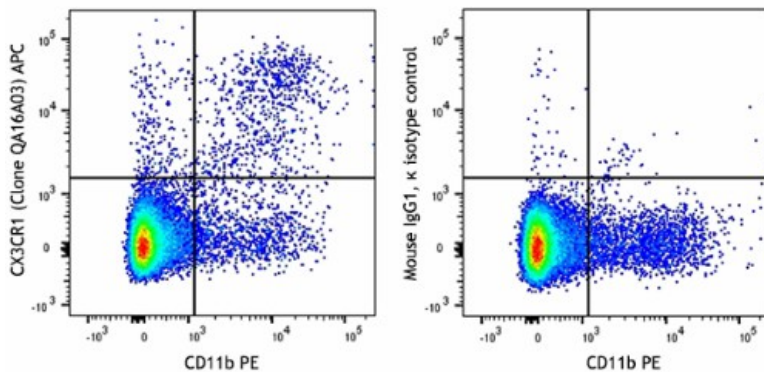
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-mouse CX3CR1 Recombinant Antibody, APC anti-mouse CX3CR1 Recombinant Antibody

Product Data



C57BL/6 mouse splenocytes were stained with CD11b PE and CX3CR1 (clone QA16A03) APC (left) or mouse IgG1, κ APC (right).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587