

TotalSeq™-C0563 anti-mouse CX3CR1 Antibody

Catalog# / Size	149043 / 10 µg
Clone	SA011F11
Regulatory Status	RUO
Other Names	Chemokine (C-X3-C motif) receptor 1, Fractalkine receptor, GPR13, CCRL1, CMKBRL1, CMKDR1, V28
Isotype	Mouse IgG2a, κ
Barcode Sequence	CACTCTCAGTCCTAT
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	Monoclonal
Host Species	Mouse
Immunogen	Mouse CX3CR1-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA; may contain stabilizer.
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Application Notes	View more applications data for a different format of this clone in our Scientific Poster Library .
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required.

Please contact [technical support](#) for more information, or visit biolegend.com/totalseq.

The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

RRID AB_2819898 (BioLegend Cat. No. 149043)

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 Adhesion, Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Cytokine/Chemokine Receptors, GPCR
Antigen References	<ol style="list-style-type: none">1. Ponzetta A, <i>et al.</i> 2013. <i>J. Immunol.</i> 191:5684.2. Jacquelin S, <i>et al.</i> 2013. <i>Blood.</i> 122:674.3. Garcia JA, <i>et al.</i> 2013. <i>J. Immunol.</i> 191:1063.4. Lee YS, <i>et al.</i> 2013. <i>Cell.</i> 153:413.5. Shechter R, <i>et al.</i> 2013. <i>Immunity.</i> 38:555.
Gene ID	13051

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

Purified anti-mouse CX3CR1, Alexa Fluor® 647 anti-mouse CX3CR1, PE anti-mouse CX3CR1, APC anti-mouse CX3CR1, PerCP/Cyanine5.5 anti-mouse CX3CR1, Brilliant Violet 421™ anti-mouse CX3CR1, Brilliant Violet 510™ anti-mouse CX3CR1, FITC anti-mouse CX3CR1, Alexa Fluor® 488 anti-mouse CX3CR1, PE/Dazzle™ 594 anti-mouse CX3CR1, PE/Cyanine7 anti-mouse CX3CR1, Biotin anti-mouse CX3CR1, Brilliant Violet 605™ anti-mouse CX3CR1, Brilliant Violet 785™ anti-mouse CX3CR1, Brilliant Violet 711™ anti-mouse CX3CR1, Brilliant Violet 650™ anti-mouse CX3CR1, Alexa Fluor® 700 anti-mouse CX3CR1, APC/Fire™ 750 anti-mouse CX3CR1, Pacific Blue™ anti-mouse CX3CR1, TotalSeq™-A0563 anti-mouse CX3CR1, TotalSeq™-C0563 anti-mouse CX3CR1, TotalSeq™-B0563 anti-mouse CX3CR1, APC/Cyanine7 anti-mouse CX3CR1 Antibody, PE/Cyanine5 anti-mouse CX3CR1, PE/Fire™ 700 anti-mouse CX3CR1, APC/Fire™ 810 anti-mouse CX3CR1, PE/Fire™ 640 anti-mouse CX3CR1

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