

TotalSeq™-A0179 anti-human CX3CR1 Antibody

Catalog# / Size	355709 / 10 µg
Clone	K0124E1
Regulatory Status	RUO
Other Names	Chemokine C-X3-C receptor 1 (CX3CR1), V28, GPR13
Isotype	Mouse IgG1, κ
Barcode Sequence	AGTATCGTCTCTGGG
Description	CX3CR1 is a G-protein-coupled seven-transmembrane chemokine receptor, also known as GPR13 or V28. It is expressed on NK cells, T cell subset, monocytes/macrophages, dendritic cells, and some malignant epithelial cells. CX3CL1 (known as fractalkine, 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 cell firm adhesion and migration.

Product Details

Verified Reactivity	Human
Reported Reactivity	Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	DNA vaccine with the full coding sequence of human GPCR cloned in expression vector.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-A 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	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™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions .

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.

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.

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 .
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The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and

BAAA*A*A (capture sequence). B represents either 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](#).

Product Citations

1. Hao Y, *et al.* 2021. *Cell*. 184:3573. [PubMed](#)

RRID

AB_2832698 (BioLegend Cat. No. 355709)

Antigen Details

Structure	G-protein-coupled seven transmembrane receptor
Distribution	NK cells, T cell subset, monocytes/macrophages, dendritic cells
Function	Cell adhesion and migration
Ligand/Receptor	CX3CL1 (fractalkine, FKN, neurotactin)
Cell Type	Dendritic cells, Macrophages, Monocytes, NK cells, T cells
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience, Neuroscience Cell Markers
Molecular Family	Cytokine/Chemokine Receptors, GPCR
Antigen References	<ol style="list-style-type: none">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.
Gene ID	1524

Related Protocols

[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 Protocol](#)

Other Formats

Purified anti-human CX3CR1, PE anti-human CX3CR1, TotalSeq™-C0179 anti-human CX3CR1, TotalSeq™-B0179 anti-human CX3CR1, TotalSeq™-A0179 anti-human CX3CR1

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