PE anti-mouse CX3CR1 Antibody

Catalog# / Size	149005 / 25 µg 149006 / 100 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
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; may contain stabilizer.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE 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 ≤0.03 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	View more applications data for a different format of this clone in our Scientific Poster Library.

Product Citations

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RRID

AB_2564314 (BioLegend Cat. No. 149005)
AB_2564315 (BioLegend Cat. No. 149006)

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

1. Ponzetta A, *et al.* 2013. *J. Immunol.* 191:5684.
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Gene ID

13051

Related Protocols

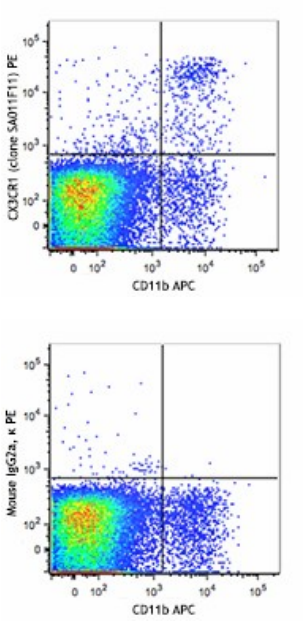
Cell Surface Flow Cytometry Staining Protocol

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

Product Data



C57BL/6 mouse splenocytes were stained with CD11b APC and CX3CR1 (clone SA011F11) PE (top) or mouse IgG2a, κ PE isotype control (bottom).

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