

PE/Cyanine7 anti-mouse/rat XCR1 Recombinant Antibody

Catalog# / Size	109411 / 25 µg 109412 / 100 µg
Clone	QA20A05
Regulatory Status	RUO
Other Names	GPR5, CCXCR1, mXCR1, Lymphotactin receptor, SCM1 receptor, XC chemokine receptor 1
Isotype	Rat IgG1, κ
Description	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 ⁺ conventional dendritic cells capable of antigen cross-presentation.

Product Details

Verified Reactivity	Mouse, Rat
Antibody Type	Recombinant
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 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	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone QA20A05 can completely block the binding of clone ZET on target cells.
RRID	AB_3698895 (BioLegend Cat. No. 109411) AB_3698895 (BioLegend Cat. No. 109412)

Antigen Details

Structure	Only member of the "C" chemokine receptor family, seven transmembrane receptor, coupled to G protein, 38 kD.
Distribution	Subset of CD8α ⁺ conventional dendritic cells.
Function	Mediates chemotaxis to XCL1, defines a population of CD8α ⁺ dendritic cells capable of antigen cross-presentation to CD8 ⁺ T cells.
Ligand/Receptor	XCL1 and XCL2

Antigen References

1. Yamazaki C, *et al.* 2013. *J Immunol.* 190:6071-82.
2. Shimizu K, *et al.* 2013. *J Immunol.* 190:5609-19.
3. Bachem A, *et al.* 2012. *Front Immunol.* 3:214.
4. Crozat K, *et al.* 2011. *J Immunol.* 187:4411-5.

Gene ID

[23832](#)

[301086](#)

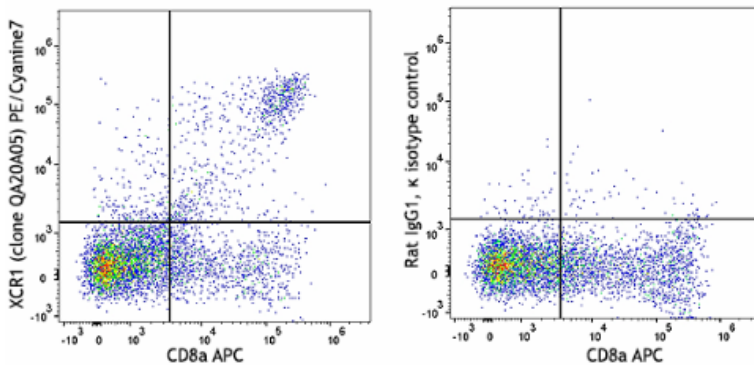
Related Protocols

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

Other Formats

Purified anti-mouse/rat XCR1 Recombinant Antibody, FITC anti-mouse/rat XCR1 Recombinant Antibody, PE anti-mouse/rat XCR1 Recombinant Antibody, APC anti-mouse/rat XCR1 Recombinant Antibody, PE/Cyanine7 anti-mouse/rat XCR1 Recombinant Antibody

Product Data



Cells from collagenase-digested C57BL/6 mouse spleen were stained with anti-mouse CD11c (clone N418) FITC, anti-mouse CD8a (clone 53-6.7) APC, and anti-mouse/rat XCR1 recombinant (clone QA20A05) PE/Cyanine7 (left) or rat IgG1, κ PE/Cyanine7 isotype control (right). Data shown was gated on the CD11c⁺ population.

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