PE anti-mouse CD169 (Siglec-1) Recombinant Antibody

Catalog# / Size	138903 / 25 µg 138904 / 100 µg
Clone	QA20A47
Regulatory Status	RUO
Other Names	Sialoadhesin, SER, Sialic acid-binding Ig-like lectin 1
Isotype	Rat IgG1, κ
Description	CD169, also known as Siglec-1 and Sialoadhesin (Sn), is a type I lectin containing 17 immunoglobulin (Ig) domains (one variable domain and 16 constant domains). CD169 binds to sialic acids, which can be found on PSGL-1, CD43, CD206, and CD227. By its affinity to α2, 3-linked sialic acid, it is involved in macrophage binding to different cell types such as granulocytes, monocytes, NK, B, and T cells. CD169 was initially identified as a sialic acid-dependent sheep erythrocyte receptor (SER) on resident bone marrow cells of mice. It has been identified as highly expressed on resident bone marrow macrophages which plays an important role in retention of stem cells in mesenchymal stem cell niche. It is also found on some specific subsets of tissue macrophages in spleen, lymph nodes, bone marrow, liver, colon, lungs, and cancer cells. Evidence suggest that CD169-positive macrophages serve as lymph node-resident APCs to dominate early activation of tumor antigen-specific CD8+ T cells and invariant NK cell.

Product Details

Verified Reactivity	Mouse
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 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)
RRID	AB_3674990 (BioLegend Cat. No. 138903) AB_3674990 (BioLegend Cat. No. 138904)

Antigen Details

Structure	Type I single membrane-spanning lectin containing 17 immunoglobulin (Ig) domains, belongs to the immunoglobulin superfamily
Distribution	Macrophages in spleen, lymph nodes, bone marrow, liver, colon and lungs

Function	Adhesion
Ligand/Receptor	PSGL-1, CD43, CD206 and CD227
Cell Type	Macrophages
Biology Area	Cell Biology, Immunology
Molecular Family	Adhesion Molecules, CD Molecules, Protein Kinases/Phosphatase, Siglec Molecules
Antigen References	1. Chow A, *et al*. 2011. *J Exp Med*. 208:261-71. 2. Asano K, *et al*. 2011. *Immunity*. 34:85-95. 3. Xiong YS, *et al*. 2009. *Clin Biochem*. 42:1057-63. 4. Varki A. 2009. *Glycoconj J.* 26:231-45. 5. Rempel H, *et al*. 2008. *PLoS One.* 3:e1967. 6. Crocker PR, *et al*. 2001. *Trends Immunol.* 22:337-42. 7. Hartnell A, *et al*. 2001. *Blood*. 97:288-96. 8. Crocker PR, *et al*. 1985. *J Exp Med*. 162:993-1014.
Gene ID	20612

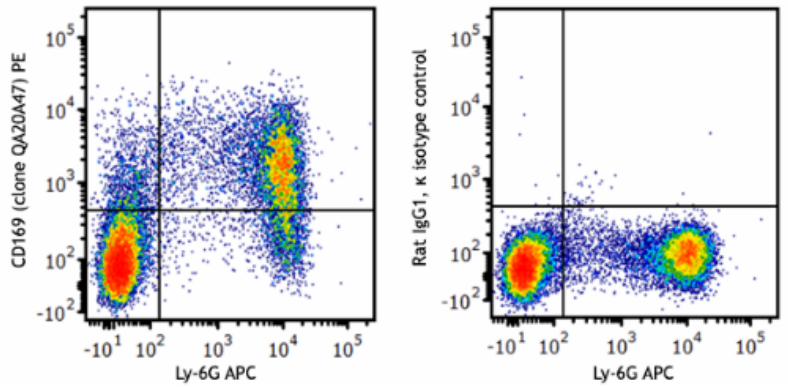
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-mouse CD169 (Siglec-1) Recombinant Antibody, PE anti-mouse CD169 (Siglec-1) Recombinant Antibody

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse Ly-6G (clone 1A8) APC and anti-mouse CD169 (Siglec-1) recombinant (clone QA20A47) PE (left) or rat IgG1, κ PE isotype control (right).

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