

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

<b>Catalog# / Size</b>	138903 / 25 µg 138904 / 100 µg
<b>Clone</b>	QA20A47
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Sialoadhesin, SER, Sialic acid-binding Ig-like lectin 1
<b>Isotype</b>	Rat IgG1, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Recombinant
<b>Host Species</b>	Rat
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>RRID</b>	AB_3674990 (BioLegend Cat. No. 138903) AB_3674990 (BioLegend Cat. No. 138904)

### Antigen Details

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

<b>Function</b>	Adhesion
<b>Ligand/Receptor</b>	PSGL-1, CD43, CD206 and CD227
<b>Cell Type</b>	Macrophages
<b>Biology Area</b>	Cell Biology, Immunology
<b>Molecular Family</b>	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](#)

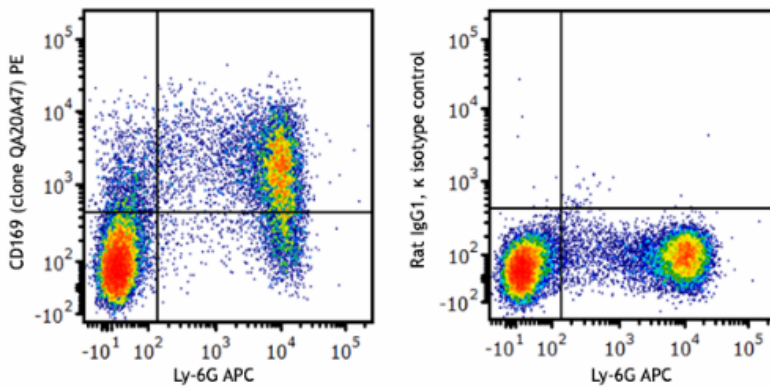
**Related Protocols**

- [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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