Datasheet for ABIN2749112

anti-Sialoadhesin/CD169 antibody (PE)

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Overview

Quantity:	100 tests
Target:	Sialoadhesin/CD169 (SIGLEC1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Sialoadhesin/CD169 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	human rhinovirus 14-infected monocyte-derived dendritic cells
Clone:	7-239
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody 7-239 recognizes an extracellular epitope of CD169 (sialoadhesin, Siglec-1), a 210 kDa type I transmembrane glycoprotein expressed on macrophages and dendritic cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Sialoadhesin/CD169 (SIGLEC1)

Target Details

Alternative Name:	CD169 / Siglec-1 (SIGLEC1 Products)
Background:	Sialic acid binding Ig like lectin 1,CD169, also known as Siglec-1 or sialoadhesin, is a type I transmembrane glycoprotein of the sialic acid binding Ig-like lectin family. It binds to sialylated glycoproteins on various haematopoietic cells to mediate cell-cell interactions. CD169 is expressed on a subset of macrophages and dendritic cells. On CD14+ monocytes its expression can be induced by interferon alpha and gamma. High expression of CD169 is observed in the spleen, lymph nodes, bone marrow, and under inflammatory conditions rheumatoid arthritis and atherosclerosis, lower in the liver, lungs and gut. It has been shown to be involved in antigen presentation to invariant NKT cells, which play an important role in the innate arm of the immune system to modulate the subsequent acquired immune responses.,SIGLEC1, SN, sialoadhesin
Gene ID:	6614
UniProt:	Q9BZZ2

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

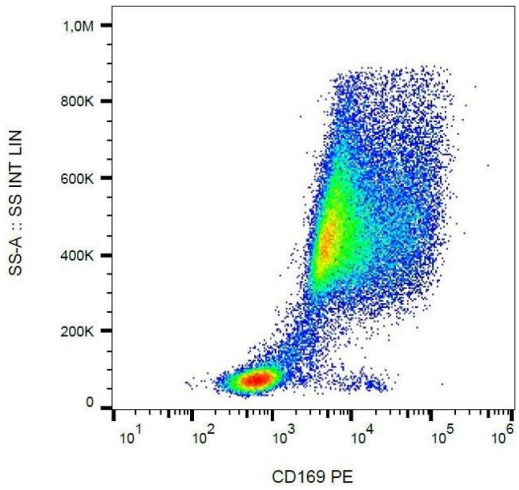
Publications

Product cited in:

Kawasaki, Vela, Nycholat, Rademacher, Khurana, van Rooijen, Crocker, Kronenberg, Paulson: " Targeted delivery of lipid antigen to macrophages via the CD169/sialoadhesin endocytic pathway induces robust invariant natural killer T cell activation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 110, Issue 19, pp. 7826-31, (2013) (PubMed).

Schrauf, Kirchberger, Majdic, Seyerl, Zlabinger, Stuhlmeier, Sachet, Seipelt, Stöckl: "The ssRNA genome of human rhinovirus induces a type I IFN response but fails to induce maturation in human monocyte-derived dendritic cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 183, Issue 7, pp. 4440-8, (2009) (PubMed).

Images



Flow Cytometry

Image 1. Surface staining of CD169 on buffy coat diff. monocytes by anti-CD169 (7-239) PE.