

TECHNICAL DATA SHEET

CyFlow™ CD169 PE Anti-Hu; Clone 7-239

REF CZ530661

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD169
Alternative Names	SIGLEC-1, SN
Clone	7-239
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human rhinovirus 14-infected monocyte-derived dendritic cells

Specificity

The mouse monoclonal antibody 7-239 recognizes CD169 antigen, a 210 kDa type I transmembrane glycoprotein expressed on macrophages and dendritic cells.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD169 (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 α and γ. 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.

References

- Schrauf C, Kirchberger S, Majdic O, Seyerl M, Zlabinger GJ, Stuhlmeier KM, Sachet M, Seipelt J, Stöckl J: The ssRNA genome of human rhinovirus induces a type I IFN response but fails to induce maturation in human monocyte-derived dendritic cells. J Immunol. 2009 Oct 1; 183(7):4440-8. < PMID: 19734213 >
- Kawasaki N, Vela JL, Nycholat CM, Rademacher C, Khurana A, van Rooijen N, Crocker PR, Kronenberg M, Paulson JC: Targeted delivery of lipid antigen to macrophages via the CD169/sialoadhesin endocytic pathway induces robust invariant natural killer T cell activation. Proc Natl Acad Sci USA. 2013 May 7; 110(19):7826-31. < PMID: 23610394 >

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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