



Antibodies

11-797-C100

## Monoclonal Antibody to CD169 / Siglec-1 Purified Antibody (0.1 mg)

<b>Clone:</b>	7-239
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody 7-239 recognizes CD169 (sialoadhesin, Siglec-1), a 210 kDa type I transmembrane glycoprotein expressed on macrophages and dendritic cells.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	human rhinovirus 14-infected monocyte-derived dendritic cells
<b>Species Reactivity:</b>	Human
<b>Application:</b>	Flow Cytometry Immunoprecipitation Western Blotting Immunohistochemistry (frozen sections) Functional Application inhibition of erythrocyte rosetting with cells expressing cd169
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
<b>References:</b>	*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. <i>J Immunol.</i> 2009 Oct 1;183(7):4440-8. *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. <i>Proc Natl Acad Sci U S A.</i> 2013 May 7;110(19):7826-31.

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**Antibodies**

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic  
Tel: +420 261 090 666 | Fax: +420 261 090 660 | [orders@exbio.cz](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)