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Monoclonal Antibody to CD169 / SIGLEC1 - FITC

Alternate names: Sialic acid-binding Ig-like lectin 1, Sialoadhesin, Siglec-1

Catalog No.: AM05889FC-N

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Background: Two families of mammalian lectin like adhesion molecules have been shown to bind glycoconjugate ligands in a sialic acid dependent manner: the selectins and the sialoadhesins. The sialoadhesin family has 4 members: CD22, a B cell specific marker; myelin associated glycoprotein (MAG), which is expressed on oligodendrocytes and Schwann cells; CD33, a myeloid differentiation antigen; and sialoadhesin, which is expressed only by a subpopulation of tissue macrophages. Involved in cell-cell interactions, sialoadhesin is structurally related to the 3 other listed members of the sialoadhesin family. CD169 is a sialic acid binding site of sialoadhesin. CD169 is a macrophage receptor expressed on stromal macrophages in many tissues, particularly found in lymph nodes, bone marrow and spleen.

Uniprot ID: A7LCJ3

NCBI: NP_999511

GeneID: 397623

Host / Isotype: Mouse / IgG1

Clone: 3B1/11

Immunogen: Porcine alveolar macrophages.
Remarks: Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.

Format:
State: Liquid purified IgG fraction
Purification: Affinity Chromatography on Protein G
Buffer System: PBS
Preservatives: 0.09% Sodium Azide, 1% Bovine Serum Albumin
Stabilizers: 1% BSA
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: **Flow cytometry:** Use 10 µl of Neat antibody to label 1x10^6 cells in 100 µl.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody is specific for the CD169 cell surface antigen, also known as sialoadhesin, which is expressed by subsets of cells of the macrophage/monocyte cell lineage. CD169 is preferentially expressed on cells in the late stages of maturation. It is expressed strongly on alveolar and tissue macrophages, but weakly on blood monocytes.
Species: Pig.
Other species not tested.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Bullido R, Gómez del Moral M, Alonso F, Ezquerra A, Zapata A, Sánchez C, et al. Monoclonal antibodies specific for porcine monocytes/macrophages: macrophage heterogeneity in the pig evidenced by the expression of surface antigens. Tissue Antigens. 1997 Apr;49(4):403-13. PubMed PMID: 9151393.
2. Thacker E, Summerfield A, McCullough K, Ezquerra A, Dominguez J, Alonso F, et al. Summary of workshop findings for porcine myelomonocytic markers. Vet Immunol Immunopathol. 2001 Jul 20;80(1-2):93-109. PubMed PMID: 11445221.
3. Revilla C, Poderoso T, Martínez P, Alvarez B, López-Fuertes L, Alonso F, et al. Targeting to porcine sialoadhesin receptor improves antigen presentation to T cells. Vet Res. 2009 May-Jun;40(3):14. doi: 10.1051/vetres:2008052. Epub 2008 Dec 12. PubMed PMID: 19081005.
4. Piriou-Guzylack L, Salmon H. Membrane markers of the immune cells in swine: an update. Vet Res. 2008 Nov-Dec;39(6):54. doi: 10.1051/vetres:2008030. Epub 2008 Jul 19. PubMed PMID: 18638439.