

Product datasheet for **SM066F**

Siglec1 Rat Monoclonal Antibody [Clone ID: MOMA-1]

Product data:

Product Type: Primary Antibodies

Clone Name: MOMA-1

Applications: FC, IF

Recommended Dilution: **Immunofluorescence.**

Flow Cytometry: Use 10 µl of neat antibody to label 10⁶ cells in 100 µl.

Reactivity: Mouse

Host: Rat

Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Stromal (reticular) elements from spleen.

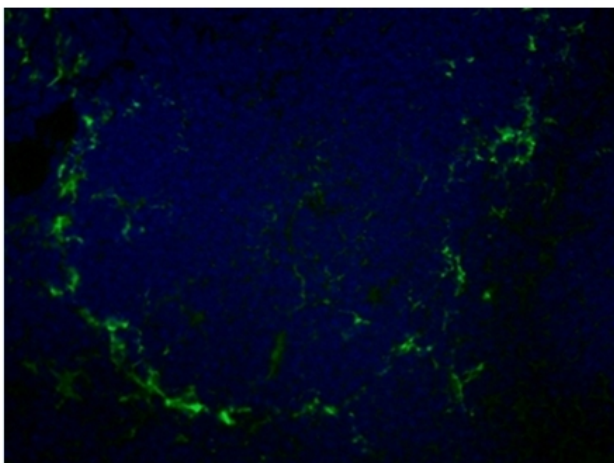
Specificity: This antibody is specific for CD169, also known as Sialoadhesin. It reacts with a subpopulation of mature resident tissue macrophages. No reactivity is seen with dendritic cells, peritoneal resident macrophages, peritoneal exudate cells or blood cells. Distinct macrophage subpopulations of lymphoid organs express the antigen. In the spleen, they are localised at the marginal sinus forming a ring around the periarteriolar lymphocyte sheath and follicular areas at the inner side of marginal zones. In lymph nodes, they are localised in the sinusoids and medullary cords but not within follicular areas or paracortex. In Peyer's patches they are localised in the interfollicular areas at the serosal side. Kupffer cells in the liver can be clearly stained by MOMA-1 although antigen expression is weaker than that seen in splenic macrophages. No MOMA-1 positive macrophages were found in the thymus. Reactivity was also negative in following organs tested so far (kidney, brain, skin). In non-lymphoid organs, the antigen is only found on a macrophage subpopulation in the lamina propria of the villi of the small intestine.

Negative Species: Human and Rat.



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| Formulation: | PBS Label: FITC State: Liquid purified IgG fraction from Tissue Culture Supernatant Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1 |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography on Protein G |
| Conjugation: | FITC |
| 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. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | sialic acid binding Ig-like lectin 1, sialoadhesin |
| Database Link: | Entrez Gene 20612 Mouse Q62230 |
| 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. |
| Synonyms: | Sialoadhesin, Siglec-1 |

Product images:

CD169 antibody staining of Mouse spleen.