SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-Sialoadhesin/FITC Conjugated antibody

Catalog Number: SL0794R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Sialoadhesin/FITC
Immunogen:	KLH conjugated synthetic peptide derived from mouse CD169
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat)
Background:	background: This gene encodes a member of the immunoglobulin superfamily. The encoded protein is a lectin-like adhesion molecule that binds glycoconjugate ligands on cell surfaces in a sialic acid-dependent manner. It is a type I transmembrane protein expressed only by a subpopulation of macrophages and is involved in mediating cell-cell interactions. Alternative splicing produces a transcript variant encoding an isoform that is soluble rather than membrane-bound; however, the full-length nature of this variant has not been determined. [provided by RefSeq, Jul 2008]. **Function:** Acts as an endocytic receptor mediating clathrin dependent endocytosis. Macrophage-restricted adhesion molecule that mediates sialic-acid dependent binding to lymphocytes, including granulocytes, monocytes, natural killer cells, B-cells and CD8 T-cells. Preferentially binds to alpha-2,3-linked sialic acid. Binds to SPN/CD43 on T-cells. May play a role in hemopoiesis. **Subunit:** Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Expressed by macrophages in various tissues. High levels are found in spleen, lymph node, perivascular macrophages in brain and lower levels in bone marrow, liver Kupffer cells and lamina propria of colon and lung. Also expressed by inflammatory macrophages in rheumatoid arthritis. **Similarity:** Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 16 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain. **Database links:** **Entrez Gene:** 6614 Human **Entrez Gene:** 20612 Mouse Omim: 600751 Human **SwissProt:** Q9BZZ2 Human **SwissProt:** Q62230 Mouse **Unigene:** 31869 Human **Unigene:** 1374 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. CD169, also known as sialoadhesin (Sn) or Siglec-1, is a 200 kDa type I transmembrane glycoprotein specifically expressed by inflammatory macrophages, playing a major role in cell-cell or cell-matrix interactions. It can recognize MUC1 (CD227) on breast cancer cells and CD43 on T cells. CD169 is most strongly expressed on stromal macrophages in the spleen, lymph nodes, and bone marrow, moderately expressed on resident macrophages in the liver, intestine, and lung, and is also strongly expressed on macrophages in chronically inflamed tissues, such as rheumatoid synovium and atherosclerotic plaques.

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