SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SIGLEC1 antibody

Catalog Number: SLM-60328R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	B4H12
Target:	SIGLEC1
Immunogen:	KLH conjugated synthetic peptide derived from human SIGLEC1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:200-1000 IHC-F=1:200-1000 IF=1:200-1000 Flow-Cyt=1:50-100（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	186kDa
Subcellular Location:	The cell membrane Secretory protein
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,

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	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. **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 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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[VALIDATION IMAGES]

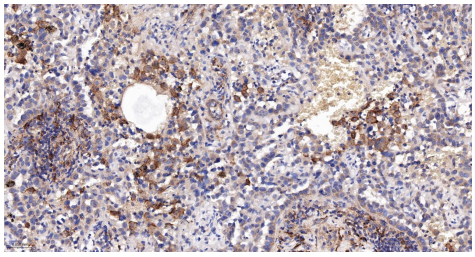


Figure 1. Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SIGLEC1 Monoclonal Antibody, Unconjugated (SLM-60328R) at 1:300 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

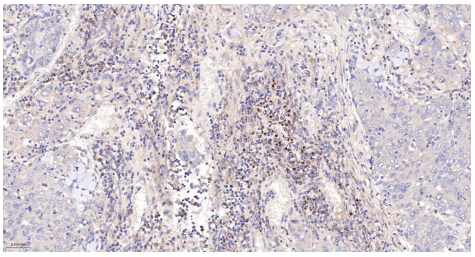


Figure 2. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SIGLEC1 Monoclonal Antibody, Unconjugated (SLM-60328R) at 1:300 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

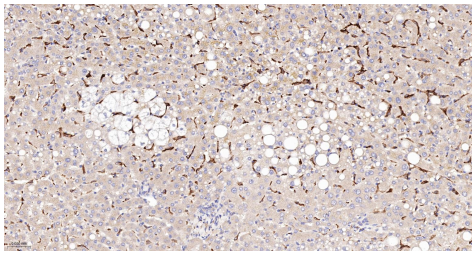


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with SIGLEC1 Monoclonal Antibody, Unconjugated (SLM-60328R) at 1:300 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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