SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-CD33 antibody

Catalog Number: SL1514R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CD33
Immunogen:	KLH conjugated synthetic peptide derived from mouse CD33: 101-200/334 <Extracellular>
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) Flow-Cyt (1:100-200) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Predicted MW.:	40/37kDa
Subcellular Location:	The cell membrane
Background:	Enables protein phosphatase binding activity and sialic acid binding activity. Involved in several processes, including negative regulation of cytokine production; negative regulation of monocyte activation; and positive regulation of protein tyrosine phosphatase activity. Located in several cellular components, including Golgi apparatus; external side of plasma membrane; and peroxisome. [provided by Alliance of Genome Resources, Apr 2022] **Function:** Putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of

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

	signaling molecules. Induces apoptosis in acute myeloid leukemia (in vitro). **Subunit:** Interacts with PTPN6/SHP-1 and PTPN11/SHP-2 upon phosphorylation. **Subcellular Location:** Cell membrane; Single-pass type I membrane protein. **Tissue Specificity:** Monocytic/myeloid lineage cells. **Post-translational modifications:** Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is involved in binding to PTPN6. **Similarity:** Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain. **Database links:** **Entrez Gene:** 945 Human **Entrez Gene:** 12489 Mouse **Entrez Gene:** 690492 Rat Omim: 159590 Human **SwissProt:** P20138 Human **SwissProt:** Q63994 Mouse **Unigene:** 83731 Human **Unigene:** 140157 Mouse CD33 (Siglec-3) is also an acute lymphocyte leukemia antigen, a cell surface transmembrane glycoprotein. CD33 is expressed in early Blymphocyte, some granulocytes, bone marrow stromal cells, and some epithelial tissues and Tumour cells originating from them. It is mainly used for the classification of certain malignant lymphomas and leukemias.

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

SunLong Biotech Co.,LTD

Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

[VALIDATION IMAGES]

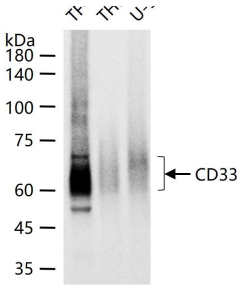


Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with CD33 polyclonal antibody, unconjugated (SL1514R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

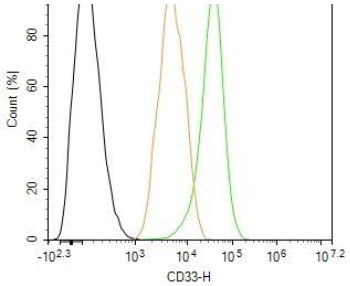


Figure 2. The THP-1 (H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-CD33 antibody (SL1514R,1:100):; Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

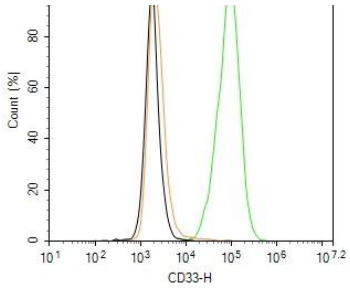


Figure 3. The TF-1 (H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-CD33 antibody (SL1514R,1:100):; Isotype Control (orange): Rabbit IgG (SL0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed

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