

## CD33 / SIGLEC3 (Myeloid Cell Surface Antigen) Antibody

Mouse Monoclonal Antibody [Clone SIGLEC3/3597]

Catalog No	Format	Size
945-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
945-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
945-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

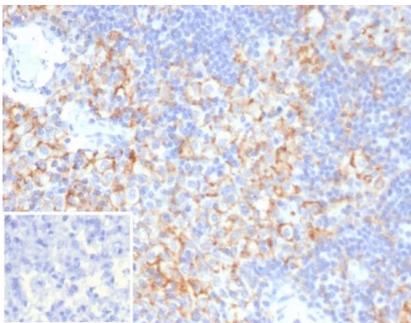
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

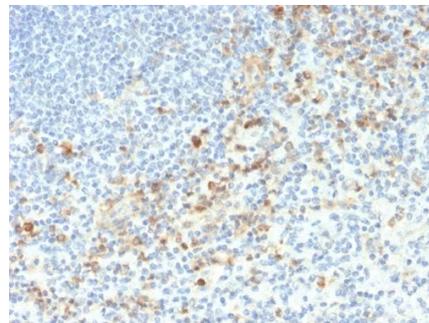
<b>Clone</b>	SIGLEC3/3597
<b>Gene Name</b>	CD33
<b>Immunogen</b>	Recombinant fragment (around a1-250) of human CD33 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	67kDa
<b>Cellular Localization</b>	Cell surface.
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human dendritic and mast cells. Human lymph nodes and tonsils.

\*Optimal dilution for a specific application should be determined.

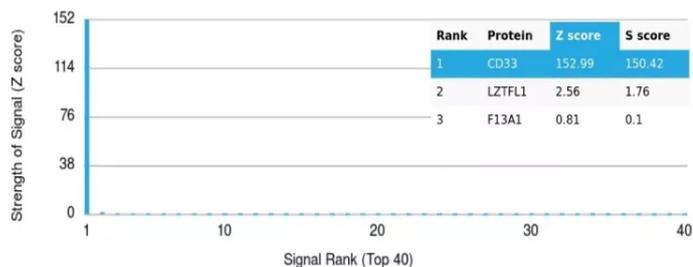
### Product Images for CD33 / SIGLEC3 (Myeloid Cell Surface Antigen) Antibody



Formalin-fixed, paraffin-embedded human lymph node stained with CD33 Mouse Monoclonal Antibody (SIGLEC3/3597). Inset: PBS instead of primary antibody; secondary only negative control.



Formalin-fixed, paraffin-embedded human spleen stained with CD33 Mouse Monoclonal Antibody (SIGLEC3/3597). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



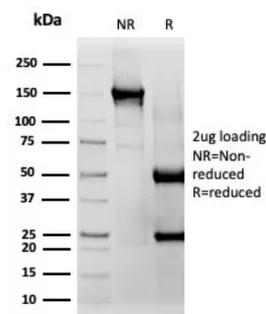
Analysis of Protein Array containing more than 19,000 full-length human proteins using CD33 Mouse Monoclonal Antibody (SIGLEC3/3597). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

### Specificity & Comments

Recognizes a 67kDa glycoprotein, which is identified as CD33. It is a transmembrane protein of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It belongs to the immunoreceptor tyrosine-based inhibitory motif (ITIM)-containing molecules able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies; these ITIMs are also used for ubiquitin-mediated removal of the receptor from the cell surface. CD33 is expressed on cells of myelomonocytic lineage, binds sialic acid residues in N- and O-glycans on cell surfaces, and is a therapeutic target for acute myeloid leukemia. CD33 is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. It is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.



SDS-PAGE Analysis of Purified CD33 Mouse Monoclonal Antibody (SIGLEC3/3597). Confirmation of Integrity and Purity of Antibody.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Hematopoietic Stem Cells, Immunology