CD33 / SIGLEC3 (Myeloid Cell Surface Antigen) Antibody

Mouse Monoclonal Antibody [Clone SIGLEC3/3600]

Catalog No	Format	Size
945-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
945-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
945-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

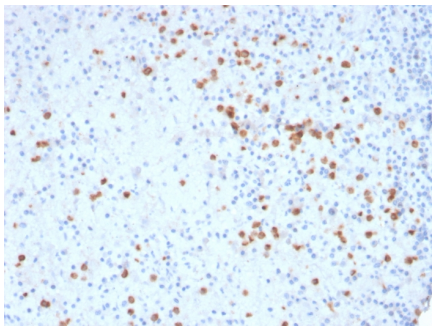
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

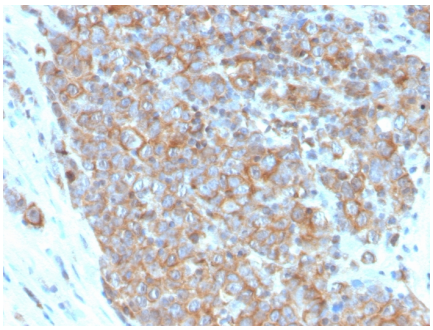
Clone	SIGLEC3/3600
Gene Name	CD33
Immunogen	Recombinant fragment (around aa51-224) of human CD33 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	~67kDa
Cellular Localization	Cell membrane, Peroxisome
Species Reactivity	Human
Positive Control	Human dendritic and mast cells. Human lymph nodes and tonsils.

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

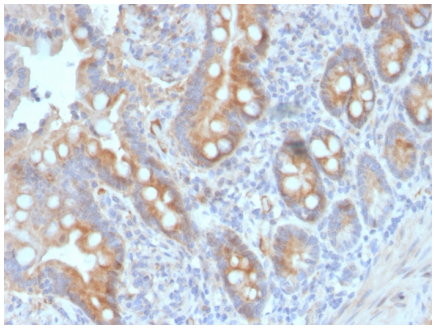
Product Images for CD33 / SIGLEC3 (Myeloid Cell Surface Antigen) Antibody



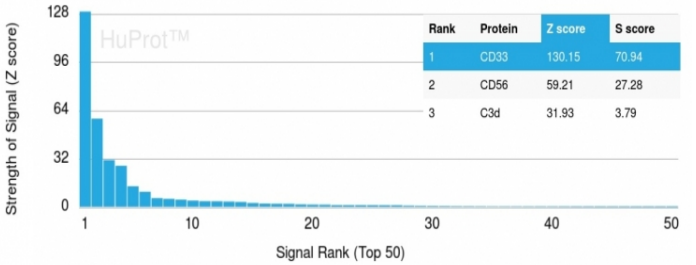
Formalin-fixed, paraffin-embedded human spleen stained with CD33 Mouse Monoclonal Antibody (SIGLEC3/3600). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



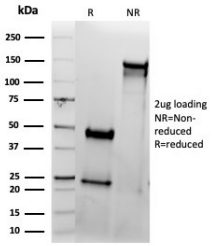
Formalin-fixed, paraffin-embedded human urothelial carcinoma stained with CD33 Mouse Monoclonal Antibody (SIGLEC3/3600). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



Formalin-fixed, paraffin-embedded human colon carcinoma stained with CD33 Mouse Monoclonal Antibody (SIGLEC3/3600). HIER: Tris/EDTA, pH9.0, 45min. 2°: HRP-polymer, 30min. DAB, 5min.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing CD33 Mouse Monoclonal Antibody (SIGLEC3/3600). 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 HuProtTM 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 HuProtTM 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 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.



SDS-PAGE Analysis Purified CD33 Mouse Monoclonal Antibody (SIGLEC3/3600). Confirmation of Integrity and Purity of Antibody.

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.

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

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.