

CD33 / SIGLEC3 (Myeloid Cell Surface Antigen) Antibody

Mouse Monoclonal Antibody [Clone SIGLEC3/7612]

Catalog No	Format	Size
945-MSM12-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
945-MSM12-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
945-MSM12-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

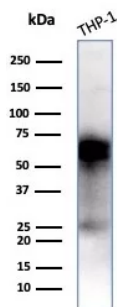
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

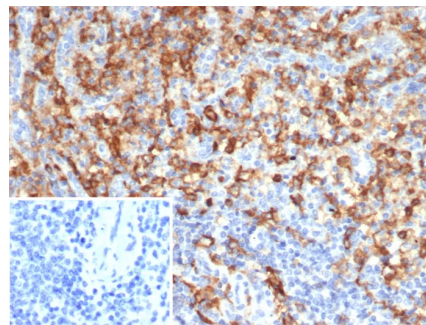
Clone	SIGLEC3/7612
Gene Name	CD33
Immunogen	Recombinant fragment of human CD33 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2 / Kappa
Mol. Weight of Antigen	67kDa
Cellular Localization	Cell Surface. Cytoplasm.
Species Reactivity	Human
Positive Control	Human dendritic and mast cells. Human lymph nodes and tonsils.

*Optimal dilution for a specific application should be determined.

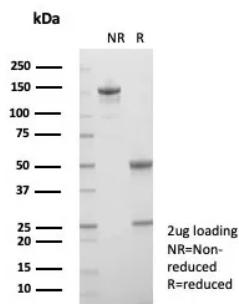
Product Images for CD33 / SIGLEC3 (Myeloid Cell Surface Antigen) Antibody



Western blot analysis of THP-1 cell lysate using CD33 Mouse Monoclonal Antibody (SIGLEC3/7612).



Formalin-fixed, paraffin-embedded human spleen stained with CD33 Mouse Monoclonal Antibody (SIGLEC3/7612). Inset: PBS instead of primary antibody; secondary only negative control.



SDS-PAGE Analysis of Purified CD33 Mouse Monoclonal Antibody (SIGLEC3/7612).
Confirmation of Purity and Integrity 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.

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.

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