

Anti-Hu CD33 Purified Monoclonal Antibody

Catalog Number: M01508-1

About CD33

CD33 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.

Overview

Product Name	Anti-Hu CD33 Purified Monoclonal Antibody
Reactive Species	Human, Primate
Description	Boster Bio Anti-Hu CD33 Purified Monoclonal Antibody (Catalog# M01508-1). Tested in Flow Cytometry, IP, WB, IHC-F, ICC, MC (CyTOF) application(s). This antibody reacts with Primate, Human.
Application	Flow Cytometry, IP, IHC-F, ICC, WB, CyTOF
Clonality	Monoclonal WM53
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P20138

Technical Details

Immunogen	Human AML cells. The mouse monoclonal antibody WM53 reacts with an extracellular epitope of CD33, a 67 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells; it is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.
Predicted Reactive Species	Primate
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Immunohistochemistry (frozen sections): Acetone fixation.

Flow cytometry: 1-4 µg/ml

Anti-Hu CD33 Purified Monoclonal Antibody (M01508-1) Images

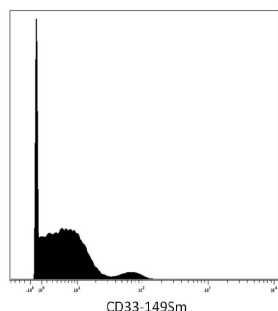


Figure 1. CyTOF validation of CD33 using Anti-Hu CD33 Purified Monoclonal Antibody (M01508-1).

Mass cytometry (surface staining) of human peripheral blood with anti-CD33 (WM53) 149Sm. Gated on singlets.

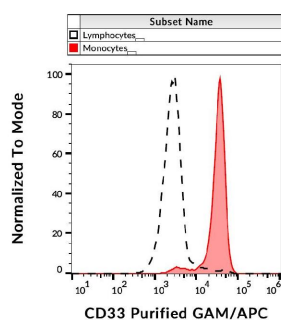


Figure 2. Flow Cytometry validation of CD33 using Anti-Hu CD33 Purified Monoclonal Antibody (M01508-1).

Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD33 (WM53) purified

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