

anti-human CD33

Monoclonal Antibody HI33a to CD33 (Human)

Cat-No: **21810331**

100 µg in 100 µl

Clone: HI33a

Specificity: The antibody HI33a recognizes a human myelomonocytic antigen, Mr 67 KD. The CD33 antigen is present on monocytes (bright) and granulocytes (dim). Granulocytes can be further subdivided into neutrophil, eosinophil, and basophil populations based on CD33 staining in combination with other cell-surface antigens. The CD33 antigen is also found on CFU-Mix, CFU-GM, GFU-Meg, a portion of BFU-E, myeloblasts, promyelocytes, myelocytes, and metamyelocytes, but not on earlier precursors. It is expressed on blast cells in greater than 85 % of acute lymphoblastic leukemias (ALL), normal lymphocytes, platelets, and erythrocytes do not express in the CD33 antigen.

Isotype subclass: Mouse IgG2a

Form: Purified from cell culture supernatant by protein-G affinity chromatography.

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 0.09 % sodium azide (pH 7.2).

Storage conditions: Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry

Background: 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.

References:

*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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