

CD33 Monoclonal Antibody (P67.6), FITC,  
eBioscience™

Catalog Number11-0337-41

Product data sheet

Details		Species Reactivity	
Size	25 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG1, kappa	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	5 µL (0.06 µg)/test
Clone	P67.6	Published Applications	
Conjugate	FITC	Flow Cytometry (Flow)	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	5 µL/Test		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

Description: The P67.6 monoclonal antibody reacts with human CD33 (also known as GP67 and P67), a 67 kDa type I transmembrane glycoprotein that is a member of the Siglec (sialic acid-binding Ig superfamily lectin) family. It is highly specific to the hematopoietic compartment and is expressed on monocytes, activated T cells, granulocytes, myeloid progenitors, and mast cells. Applications Reported: This P67.6 antibody has been reported for use in flow cytometric analysis. Applications Tested: This P67.6 antibody has been pre-titrated and tested by flow cytometric analysis of lysed whole blood. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

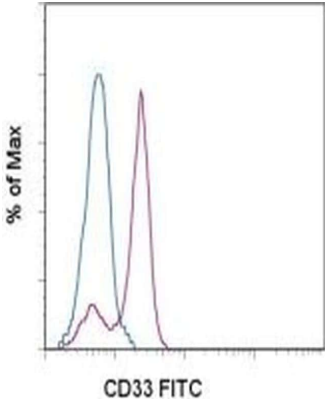
CD33 is a transmembrane protein of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It belongs to the immunoreceptor tyrosine-based inhibitory motif (ITIM)-containing molecules able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies, and these ITIMs are 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. Further, CD33 is found on granulocyte and macrophage precursors in the bone marrow, but is not on pluripotent stem cells. CD33 is also expressed on, and is a useful marker for, peripheral monocytes. CD33 is useful for distinguishing myelogenous leukemia cells from lymphoid or erythroid leukemias. Diseases associated with CD43 dysfunction include gallbladder lymphoma and extracutaneous mastocytoma.

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**CD33 Antibody (11-0337-41) in Flow**

Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-Human CD33 FITC (purple histogram). Cells in the monocyte gate were used for analysis.

1 Flow Cytometry References

Species / Dilution	Summary
Human / 1:20	11-0337-42 was used in Flow Cytometry to study the biological mechanisms that drive hypomethylating agent therapy failure at the stem-cell level to uncover vulnerabilities in the disease and halt its evolution.
	Nature medicine ( 2022; 28: 557)
	<b>"Stem cell architecture drives myelodysplastic syndrome progression and predicts response to venetoclax-based therapy."</b> Author(s):Ganan-Gomez I,Yang H,Ma F,Montalban-Bravo G,Thongon N,Marchica V,Richard-Carpentier G,Chien K,Manyam G,Wang F,Alfonso A,Chen S,Class C,Kanagal-Shamanna R,Ingram JP,Ogoti Y,Rose A,Loghavi S,Lockyer P,Cambo B,Muftuoglu M,Schneider S,Adema V,McLellan M,Garza J,Marchesini M,Giuliani N,Pellegrini M,Wang J,Walker J,Li Z,Takahashi K,Levenson JD,Bueso-Ramos C,Andreeff M,Clise-Dwyer K,Garcia-Manero G,Colla S PubMed Article URL: <a href="http://dx.doi.org/10.1038/s41591-022-01696-4">http://dx.doi.org/10.1038/s41591-022-01696-4</a>

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