



Sanquin

PeliCluster

CD33

Specification sheet

Art.no	M1585
Test/vial	200
Clone	CLB-MD33.6
	This clone has been derived from hybridization of SP2/O cells with spleen cells of a BALB/c mouse immunized with human CD33 transfectants. This antibody meets the specification for CD33 of the International Workshop on Human Leukocyte Differentiation Antigens.
Isotype	Mouse IgG1.
Source	Ascites fluid of tumour bearing BALB/c mice.
Purification	Ammoniumsulphate precipitation and ion exchange chromatography.
Packing	Each vial contains 1 ml with approximately 0.2 mg/ml monoclonal antibody and 10 mg BSA in 20 mM TRIS and 150 mM NaCl, pH 8.0.
Preservative	Sodium azide (NaN ₃), 0,1% (w/v).
Storage and stability	Monoclonal antibodies should be stored in the dark at 2-8°C. The reagent is stable until the expiry date stated on the vial label.
Major reactivity	The monoclonal antibody is directed against the CD33 antigen (My9, belonging to the Ig-supergene family), which is expressed on a majority of myeloid monocytic cells, except on granulocytes. The antibody reacts in the bone marrow from myeloblasts up to myelocytes. CD33 antigen is found on CFU-GEMM, CFU-GM, CFU-G, CFU-M and erythroid CFU-E, but not on earlier precursors. It does not react with normal human peripheral granulocytes, B cells, T cells and platelets. The monoclonal antibody reacts weakly with blast cells in 70% of patients with Acute Myeloid Leukaemia (AML) and in 30% of adult patients with Acute Lymphoblastic Leukaemia (ALL).
Molecular mass	67 kDa.
Application	Study of myeloid leukaemia and myeloid differentiation.
Methods	Indirect immunofluorescence staining with analysis by flow cytometry or fluorescence microscopy. (see AZ_CDO.pdf)