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## Mouse Anti-Human CD33-PE Cy5 conjugate

**Catalog#** CD33PC-100 **Size** 100 tests  
**Catalog#** CD33PC-25 **Size** 25 tests

### PRODUCT INFORMATION

**CLONE:** HIM3-4  
**ISOTYPE:** Mouse IgG1,  $\kappa$   
**WS.No.:** MA112, VI MA47  
**Product Forms:** Purified, FITC conjugation, PE conjugation.

### DESCRIPTION

CD33 McAb recognizes a 67 KD type I transmembrane glycoprotein expressed mainly on monocytes, granulocytes (weakly), myeloid progenitors and mast cells, but not on lymphocytes, platelets, erythrocytes and hematopoietic stem cells. CD33 antigen is a useful marker for the diagnosis of non lymphoblastic leukemias and also for distinguishing myelogenous leukemia cells from lymphoid leukemia cells. The CD33 antigen is earlier expressed in the cytoplasm (cyCD33) than the expression on the cell membrane (mCD33) of the myeloblasts. It is more valuable using cyCD33 and cyCD13 to diagnose leukemia of AML-M0 (as the CD13 antigen is also earlier expressed in the cytoplasm (cyCD13) than the expression on the cell membrane (mCD13) of the myeloblasts). The CD33 antigen functions as an adhesion molecule.

### PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC, R-PE under optimum conditions.

### USAGE

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections.

The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20 $\mu$ l/10<sup>6</sup> cells or 100 $\mu$ l peripheral blood cells.

### STORAGE

For purified forms, long term storage at -20 $^{\circ}$ C.

For conjugated forms, storage at 4 $^{\circ}$ C, should not be frozen and avoid prolonged exposure to light.

### REFERENCES

1. She M., Shen DC., Tang MH., et al., 1994. HIM3-4: A CD33 McAb produced by CD33 gene transfected cells. *J. Monoclonal Antibody*. 10(3):18
2. Schlossman S., L. Bloumsell, W. Gilks, et al., eds. 1995. *Leucocyte Typing* □: White Cell Differentiation Antigens. P: 247 , 353–356 Oxford University Press, New York.
3. Tadimitsu K, K.Hitoshi, A.E.G.Kr.van dem Borne, et al., eds. 1997. *Leucocyte Typing* □: White Cell Differentiation Antigens. P: 972, 1133 Garland Publishing, Inc., New York.