

# CD33 (PWS44)

## Mouse monoclonal Antibody

**Host:** Mouse  
**Specificity:** Human  
**Immunogen:** Prokaryotic recombinant protein corresponding to a region of the C2 domain of the human CD33  
**Ig Class:** IgG2b  
**Storage:** Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

**Specifications:** CD33 (PWS44) Mouse monoclonal primary antibody detects CD33 Protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:50-100. Positive Control: sample known to contain CD33 Protein.

**Localization:** Cytoplasmic.

**Intended Use:** Research Use Only (RUO). This antibody is not for diagnostic use.

**Description:** CD33 (gp67, or siglec-3) is a 67 kDa glycosylated transmembrane protein that is a member of the sialic acid-binding immunoglobulin-like lectin (siglec) family. CD33 plays a role in cell-cell interactions, signaling, and modulation of immune cell function. The CD33 antibody may be particularly advantageous for cases of acute myeloid leukemia, minimally differentiated (AML-M0) and acute monocytic leukemia (AML-M5), in which other paraffin section markers of myeloid differentiation (such as anti-myeloperoxidase) may be negative. All cases of myeloid sarcoma in this study showed anti-CD33 positivity in the myeloid and monocytic subsets, allowing for easy interpretation. The excellent sensitivity and specificity for myelomonocytic lineage makes this anti-CD33 a useful diagnostic marker for myeloid sarcoma. In addition, this anti-CD33 may be useful in determining CD33 expression on previous paraffin-embedded material if flow cytometry studies were not initially performed in patients with acute leukemia. Analysis of CD33 expression in paraffin-embedded bone marrow biopsy specimens provides another alternative when evaluating acute leukemias.

**Supplied As:** Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

### References:

1. Freeman SD, et al. Blood. 1995; 85:2005-12
2. Hoyer JD, et al. Am J Clin Pathol. 2008; 129:316-23.
3. Laszlo GS, et al. Oncotarget. 2016; 7:43281-94.

**REF** Z2232ML/ Z2232MS/ Z2232MT/ Z2232MP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)




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**RUO**  
(research  
use only)

**LOT**  
(lot number)

**REF**  
(catalogue  
number)

  
(expiry date)

  
(temperature  
limit)

  
(consult  
Instructions  
for Use)