

---

## CD33 (Clone PWS44) Mouse Monoclonal Antibody

**Specificity:** Human. Others not known

**Immunogen:** Prokaryotic recombinant protein corresponding to a region of the C2 domain of the human CD33 molecule

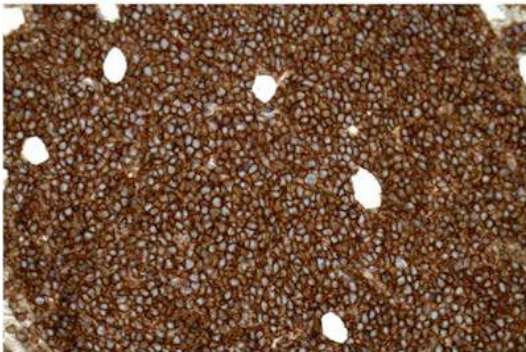
**Ig Class:** IgG2b

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:20-80; *Positive Control:* Myeloid leukemia. *Cellular Localization:* Cytoplasmic. *Intended Use:* In Vitro Diagnosis (IVD).

**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. This 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 0.2% BSA and 15mM sodium azide.



### References:

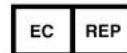
1. Freeman SD, et al. *Blood*. 1995; 85:2005-12.
2. Hoyer JD, et al. *Am J Clin Pathol*. 2008; 129:316-23.
3. Laszlo GS, et al. *Oncotarget*. 2016; 7:43281-94.

*Formalin-fixed, paraffin-embedded human marrow acute myeloid leukemia stained with anti-CD33 antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of leukemic cells*

Cat. #Z2232 (1.0 ml)

---

**ZETA** Corporation  
65 N 1<sup>st</sup> Ave, Ste 202C  
Arcadia, CA 91006, USA  
Tel: (626) 355-2053  
<http://www.zeta-corp.com>



Zeta Corporation

**Emergo Europe B.V.**  
Prinsessegracht 20  
2514 AP The Hague  
The Netherlands  
Tel: +31 70 345 8570