

**Mouse Anti-CD33 [PWS44]: MC0515, MC0515RTU7**

**Intended Use:** For Research Use Only

**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.

**Specifications**

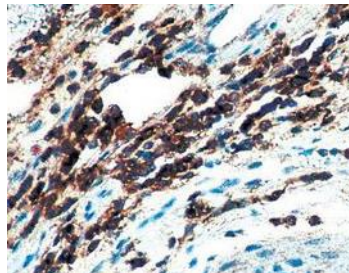
Clone: PWS44  
 Source: Mouse  
 Isotype: IgG2b  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and < 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
CD33 Concentrated	MC0515	1 ml
CD33 Prediluted	MC0515RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Tonsil, myeloid leukemia  
 Concentrated Dilution: 10-50  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human Acute myeloid leukemia stained with anti-CD33 using DAB

**References:**

1. CD33-specific chimeric antigen receptor T cells exhibit potent preclinical activity against human acute myeloid leukemia. Kenderian SS, et al. *Leukemia*. Aug;29(8):1637-47, 2015.
2. Association of CD33 polymorphism rs3865444 with Alzheimer's disease pathology and CD33 expression in human cerebral cortex. Walker DG, et al. *Neurobiol Aging*. Feb;36(2):571-82, 2015.
3. Indolent T-lymphoblastic proliferation with disseminated multinodal involvement and partial CD33 expression. Ohgami RS, et al. *Am J Surg Pathol*. Sep;38(9):1298-304, 2014.

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Rev. A