Instructions For Use

**Specification:**

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. The genomic locus of this protein has been mapped to chromosome 19q13.1-3.5. In maturing granulocytic cells, there is progressive down-regulation of CD33 from the blast stage to mature neutrophils. However, in monocytes and macrophages/histiocytes, strong expression of CD33 is maintained throughout maturation. Therefore, the positive control tissue should be bone marrow myeloid cells (especially myeloid precursors), liver Kupffer cells, lung alveolar macrophages, or placental syncytiotrophoblasts. Detection of CD33 using monoclonal antibodies has been a critical component in immunophenotyping acute leukemias, particularly acute myeloid leukemias. This anti-CD33 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-myeoprotoxidase) may be negative. However, anti-CD33 staining cannot be used in isolation and must be correlated with other myeloid and lymphoid markers because cases of myeloid antigen–positive acute lymphoblastic leukemia may show bona fide CD33 expression.

**Availability:**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Contents</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILM 1303 C1</td>
<td>CD33</td>
<td>1,0 ml</td>
</tr>
<tr>
<td>ILM 1303 C05</td>
<td>CD33</td>
<td>0,5 ml</td>
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<tr>
<td>ILM 1303 C01</td>
<td>CD33</td>
<td>0,1 ml</td>
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</table>

**Intended use:** For In Vitro Diagnostic Use (IVD)

**Reactivity:** Human

**Clone:** PWS44

**Species of origin:** Mouse

**Isotype:** IgG₂b

**Control Tissue:** Acute myeloid leukemia with monocytic differentiation, placenta

**Staining:** Membranous

**Presentation:** Antibody diluted in Tris Buffer, pH 7.3-7.7, with 1% BSA and <0.1% Sodium Azide

**Application and suggested dilutions:**

Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer, pH6.0, or in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:20-1:80)

The optimal dilution for a specific application should be determined by the investigator.

**Note:** Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody based detection is recommended

**Storage & Stability:** Store at 2-8 °C. Do not use after expiration date printed on the vial.
References:


