Technical Data Sheet

FITC Mouse Anti-Human CD33

Product Information

Material Number: 555626
Alternate Name: Siglec-3; SIGLEC3; gp67; p67
Size: 100 Tests
Vol. per Test: 20 µl
Clone: HIM3-4
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Workshop: V MA112
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The HIM3-4 monoclonal antibody specifically binds to CD33 which is also known as Sialic acid-binding Ig-like lectin 3 (Siglec-3), gp67, or p67. CD33 is a 67 kDa type I transmembrane glycoprotein expressed on monocytes, activated T cells, myeloid progenitors as well as mast cells. CD33 is absent on normal platelets, lymphocytes, erythrocytes and hematopoietic stem cells. This glycoprotein can reportedly function as a sialic acid-dependent cell adhesion molecule. This function can be modulated by endogenous sialoglycoconjugates when CD33 is expressed on the membrane. HIM3-4 reacts with human and monkey granulocytes and monocytes.

Flow cytometric analysis of CD33 expression on human peripheral blood leukocytes. Human whole blood was stained with either FITC Mouse Anti-Human CD33 (Cat. No. 555626/561818; solid line histogram) or FITC Mouse IgG1, κ Isotype Control (Cat. No. 555748; dashed line histogram). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Fluorescent histograms were derived from gated events with the forward and side light-scattering characteristics of viable monocytes (Left Panel) or granulocytes (Right Panel). Flow cytometry was performed on a BD FACScan™ system.

Preparation and Storage

Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

| Flow cytometry | Routinely Tested |

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555626 Rev. 9
### Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
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<td>555748</td>
<td>FITC Mouse IgG1, κ Isotype Control</td>
<td>100 Tests</td>
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<td>561818</td>
<td>FITC Mouse Anti-Human CD33</td>
<td>25 Tests</td>
<td>HIM3-4</td>
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### Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

### References