## PRODUCT INFORMATION

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| **Clone ID** | DM77 |
| **Target** | CD33 |
| **Synonyms** | CD33;SIGLEC3;gp67 |
| **Host Species** | Rabbit |
| **Description** | PE-conjugated Anti-CD33 antibody(DM77); Rabbit mAb |
| **Delivery** | Under Development |
| **Uniprot ID** | P20138 |
| **IgG type** | Rabbit IgG |
| **Clonality** | Monoclonal |
| **Reactivity** | Human |
| **Applications** | Flow Cyt |
| **Recommended Dilutions** | Flow Cyt 1:100 |
| **Purification** | Purified from cell culture supernatant by affinity chromatography |
| **Formulation & Reconstitution** | Liquid□PBS with 0.05% Proclin300, 1% BSA |
| **Storage & Shipping** | Store at 2°C-8°C for 6 months |
| **Background** | Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state. Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans. Upon engagement of ligands such as C1q or syalylated glycoproteins; two immunoreceptor tyrosine-based inhibitory motifs (ITIMs) located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK. These phosphorylations provide docking sites for the recruitment and activation of protein-tyrosine phosphatases PTPN6:SHP-1 and PTPN11:SHP-2. In turn; these phosphatases regulate downstream pathways through dephosphorylation of signaling molecules. One of the repressive effect of CD33 on monocyte activation requires phosphoinositide 3-kinase:PI3K. |
| **Usage** | Research use only |
| **Conjugate** | PE-conjugated |
| **DIMA Disclaimer** | All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to ensure no IP infringement. |



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