

PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| Target                     | CD33  |
| Description                | Monoclonal Cell Line Derived from 293T Cells,<br>Engineered for Stable Expression of Human CD33<br>Using Lentiviral Technology  |
| Host Cells                 | 293T  |
| Uniprot ID                 | P20138  |
| Applications               | FACS Data   |
| Growth media               | DMEM+10% FBS+1% P.S+Gln+2 ug/mL<br>Puromycin  |
| Package                    | 5E6 Cells/mL  |
| Suggested Control          | SKU: BME100015  |
| Warranty and<br>Disclaimer | 1. Please inspect cells upon receipt and report<br>any issues promptly. 2. We offer one-time<br>replacements for issues reported within a week of<br>receipt. 3. User-induced issues are not eligible for<br>free replacements. 4. We do not accept liability<br>for damages resulting from cell use, storage, or<br>loss. 5. Feedback received more than one month<br>after receipt will not be processed.   |
| Storage&Shipping           | Cells are shipped using dry ice and require liquid<br>nitrogen storage for long term preservation.  |
| Synonyms                   | CD33;SIGLEC3;gp67   |
| Background                 | Sialic-acid-binding immunoglobulin-like lectin<br>(Siglec) that plays a role in mediating cell-cell<br>interactions and in maintaining immune cells in a<br>resting state. Preferentially recognizes and binds<br>alpha-2,3- and more avidly alpha-2,6-linked sialic<br>acid-bearing glycans. Upon engagement of<br>ligands such as C1q or sialylated glycoproteins;<br>two immunoreceptor tyrosine-based inhibitory<br>motifs (ITIMs) located in CD33 cytoplasmic tail are<br>phosphorylated by Src-like kinases such as LCK.<br>These phosphorylations provide docking sites for<br>the recruitment and activation of protein-tyrosine<br>phosphatases PTPN6:SHP-1 and PTPN11:SHP-2. In<br>turn; these phosphatases regulate downstream<br>pathways through dephosphorylation of signaling<br>molecules. One of the repressive effect of CD33<br>on monocyte activation requires phosphoinositide<br>3-kinase:PI3K. |
| Usage                      | For research use only.  |



Hu\_CD33 293T Cell Line

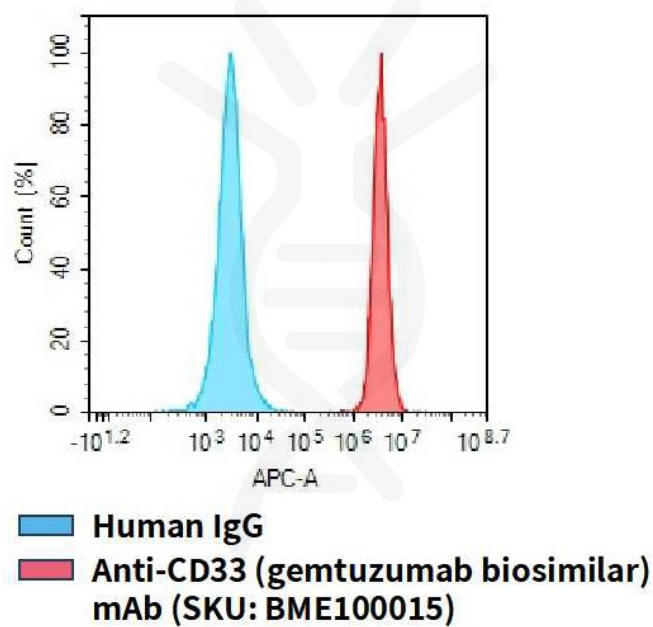


Figure 1. Flow cytometry analysis of human CD33 overexpression using Hu\_CD33 293T Cell Line (Cat. No. CEL100025) and Anti-CD33 (gemtuzumab biosimilar) mAb (Cat. No. BME100015)

