

## 10-4138: Monoclonal Antibody to Human CD33 (Clone: wm53)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	wm53
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD33
<b>Gene ID :</b>	945
<b>Uniprot ID :</b>	P20138
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Myeloid cell surface antigen CD33,Sialic acid-binding Ig-like lectin 3,Siglec-3,gp67
<b>Isotype :</b>	Mouse IgG1 Kappa
<b>Immunogen Information :</b>	Human AML cells were used as immunogen for this antibody.

### Description

CD33 is a member of the SIGLEC (Sialic Acid-Binding Ig-Like Lectin) family of receptors, and the gene comprises seven coding exons. Exon 2 encodes the canonical IgV domain, exon 4 encodes the IgC structural domain, and exons 6 and 7 encode cytosolic ITIMs (Immunotyrosine Inhibitory Motifs). CD33 acts as a cell surface antigen which is expressed on normal myeloid cells and CD34+ blasts in AML (Acute Myeloid Leukemia). The antigen serves as a target of GO (Gemtuzumab/Ozogamicin), which exerts anti-leukemic effects in refractory AML.

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

FACS: 0.5-1 µg/10<sup>6</sup> cells

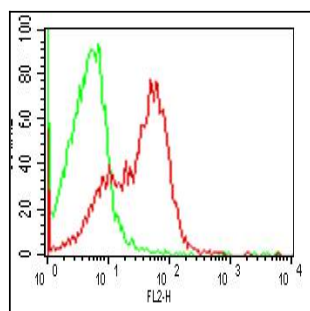


Figure-1: Cell Surface flow analysis of hCD33 in PBMC using 0.5 µg/10<sup>6</sup> cells. Green represents isotype control (ABEOMICS); red represents anti-hCD33 antibody (10-4138). Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.