

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

Clonality :	Monoclonal
Clone Name :	wm53
Application :	FACS
Reactivity :	Human
Gene :	CD33
Gene ID :	945
Uniprot ID :	P20138
Format :	Purified
Alternative Name :	Myeloid cell surface antigen CD33,Sialic acid-binding Ig-like lectin 3,Siglec-3,gp67
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	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

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	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.
Storage condition :	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/10⁶ cells

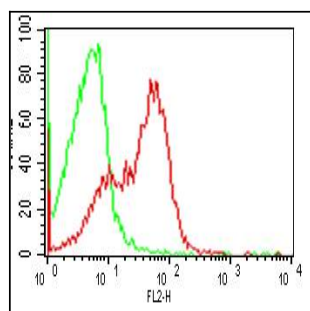


Figure-1: Cell Surface flow analysis of hCD33 in PBMC using 0.5 µg/10⁶ cells. Green represents isotype control (ABEOMICS); red represents anti-hCD33 antibody (10-4138). Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.