

PRODUCT INFORMATION

CD33 Target

Synonyms CD33;SIGLEC3;qp67

Recombinant human CD33 protein with C-Description

terminal human Fc and 6×His tag

Delivery In Stock **Uniprot ID** P20138 **Expression Host HEK293**

Tag C-Human Fc and 6×His Tag

Molecular CD33(Asp18-His259) hFc(Glu99-Ala330) 6×His

Characterization

Background

The protein has a predicted molecular mass of

Molecular Weight 53.8 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue **Purity**

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

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.

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Usage Research use only

Conjugate Unconjugated





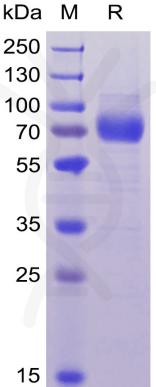


Figure 1. Human CD33, hFc-His Tag on SDS-PAGE under reducing condition.

Human CD33, hFc-His tagged protein ELISA

0.1 μg of Human CD33, hFc-His tagged protein per well

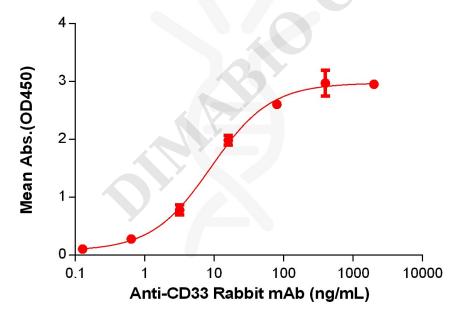


Figure 2. ELISA plate pre-coated by 1 μ g/mL (100 μ L/well) Human CD33(18-259) Protein, hFc-His Tag(PME100039) can bind Anti-CD33 Rabbit mAb in a linear range of 3.2-16 ng/mL.

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