

HUMAN CD33(18-259) PROTEIN, HFC-HIS TAG

目录: 11166

产品名称: Human CD33(18-259) Protein

规格: 10 µg, 50 µg and 100 µg

基因符号: CD33;IGLEC3;p67

Target: CD33

UNIPROT ID: P20138

描述: Recombinant human CD33 protein with C-terminal human Fc and 6xHis tag

背景: 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 Clq or sialylated 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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 53.8 kDa after removal of the signal peptide.

Molecular Characterization: CD33(Asp18-His259) hFc(Glu99-Ala330) 6xHis tag

纯化: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

储存和运输: 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). Lyophilized proteins are shipped at ambient temperature.

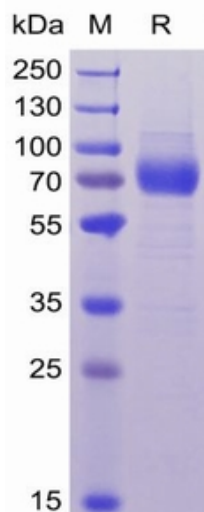


Figure 1. Human CD33, hFc-His Tag on SDS-PAGE under reducing condition.

Human CD33, hFc-His tagged protein ELISA

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

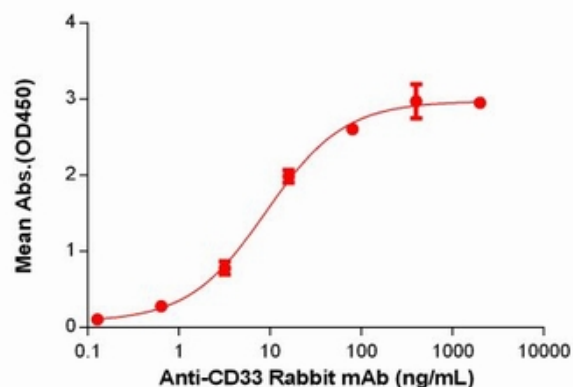


Figure 2. ELISA plate pre-coated by 1 μ g/ml (100 μ l/well) Human CD33(18-259) Protein, hFc-His Tag(11166) can bind CD33 Rabbit mAb in a linear range of 3.2-16 ng/mL.