Siglec-3/CD33 Protein, Cynomolgus/Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P75651
Synonyms:	Myeloid Cell Surface Antigen CD33; Siglec-3; gp67; CD33; SIGLEC3
Species:	Rhesus Macaque
Source:	HEK293
Accession:	A0A2K5W2R5 (M16-G248)
Gene ID:	102117580
Molecular Weight:	Approximately 45.2 kDa

PROPERTIES

AA Sequence	M D P R V R L E V Q E S V T V Q E G L C V L V P C T F F H P V P Y H T R N S P V H G Y W F R E G A I V S L D S P V A T N K L D Q E V R E E T Q G R F R L L G D P S R N N C S L S I V D A R R R D N G S Y F F R M E K G S T K Y S Y K S T Q L S V H V T D L T H R P Q I L I P G A L D P D H S K N L T C S V P W A C E Q G T P P I F S W M S A A P T S L G L R T T H S S V L I I T P R P Q D H G T N L T C Q V K F P G A G V T T E R T I Q L N V S Y A S Q N P R T D I F L G D G S G
Biological Activity	Immobilized Human CD33 at 2 μg/mL (100 μL/well) can bind Anti-CD33 Antibody. The ED_{50} for this effect is 22.60 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Siglec-3/CD33, a sialic-acid-binding immunoglobulin-like lectin, plays a crucial role in mediating cell-cell interactions and maintaining immune cells in a resting state. It exhibits a preference for binding sialic acid on the short O-linked glycans of specific mucins. The protein forms homodimers through disulfide linkages and interacts with signaling molecules such as PTPN6/SHP-1 and PTPN11/SHP-2 upon phosphorylation. Additionally, CD33 engages with C1QA via its C-terminus, leading

	to the activation of CD33 inhibitory motifs.

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