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Datasheet for ABIN7274160

CD33 Protein (CD33) (AA 18-259) (His-Avi Tag,Biotin)

3 Images

Overview

Quantity:	100 µg
Target:	CD33
Protein Characteristics:	AA 18-259
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD33 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human Siglec-3/CD33 Protein
Sequence:	Asp18-His259
Characteristics:	Recombinant Biotinylated Human Siglec-3/CD33 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Asp18-His259.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 90 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Anti-Siglec-3 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Siglec-3, His Tag with the EC50 of 40.9ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CD33
Alternative Name:	Siglec-3 (CD33 Products)
Background:	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. They are sialoadhesin/CD169/Siglec-1, CD22/Siglec-2, CD33/Siglec-3, Myelin-Associated Glycoprotein (MAG/Siglec-4a) and Siglecs 5 to 11. To date, no Siglec has been shown to recognized any cell surface ligand other than sialic acids, suggesting that interactions with glycans containing this carbohydrate are important in mediating the biological functions of Siglecs.
Molecular Weight:	29.6 kDa. Due to glycosylation, the protein migrates to 48-58 kDa based on Tris-Bis PAGE result.

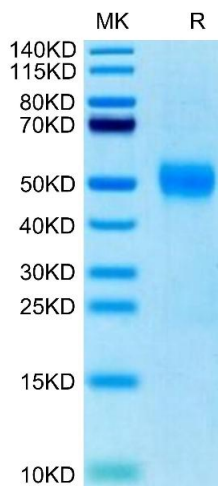
Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in 50m MES, 500 mM NaCl, 200 mM L-arginine (pH 7.4).
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Images

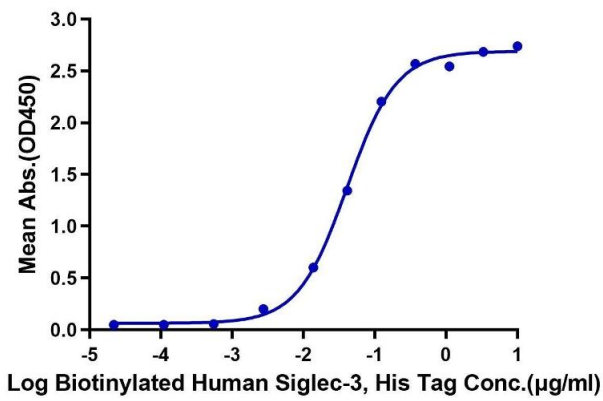


SDS-PAGE

Image 1. Biotinylated Human Siglec-3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

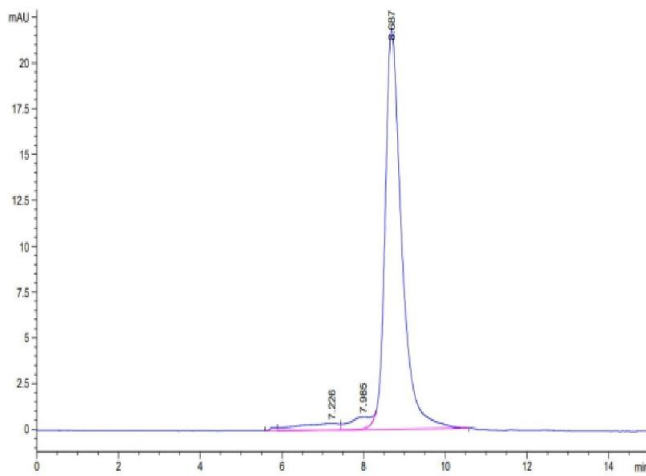
Biotinylated Human Siglec-3, His Tag ELISA

0.05µg Anti-Siglec-3 Antibody, hFc Tag Per Well



ELISA

Image 2. Immobilized Anti-Siglec-3 Antibody, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human Siglec-3, His Tag with the EC50 of 40.9 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Human Siglec-3 is greater than 90 % as determined by SEC-HPLC.