

For Research Use Only

Recombinant Human CD33 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2138

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human CD33 protein Asp18-His259 (Accession# AAH28152.1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
945

Accession:
AAH28152.1

Predicted Molecular Mass:
53.0 kDa

SDS-PAGE:
60-85 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD33, also known as sialic acid-binding Ig-like lectin 3 (Siglec-3) or gp67, is a 67-kDa type I transmembrane glycoprotein of sialic acid-binding immunoglobulin-like lectin (Siglec) family, a discrete subset of the immunoglobulin (Ig) superfamily molecules. It contains an amino-terminal V-set Ig-like domain and a C2-set Ig-like domain in its extracellular region, a transmembrane region, and two conserved tyrosine-based inhibitory signaling motifs in its cytoplasmic region. Alternative splicing of CD33 RNA leads to a shorter isoform. CD33 is expressed on myeloid progenitors, granulocytes, monocytes, macrophages, dendritic cells, mast cells, subsets of activated T- and NK cells. It may mediate cell-to-cell adhesion and act as a receptor that inhibits the proliferation of normal and leukemic myeloid cells.

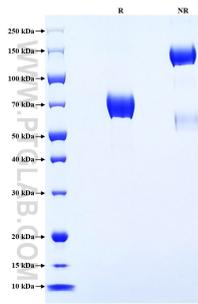
References

1. EJ Favalaro, et al. (1988) Br J Haematol. 69(2):163-71.
2. SD Freeman, et al. (1995) Blood. 85(8):2005-12.
3. C Vitale, et al. (1999) Proc Natl Acad Sci U S A. 96(26):15091-6.
4. Trinidad Hernández-Caselles, et al. (2006) J Leukoc Biol. 79(1):46-58.
5. George S Laszlo, et al. (2014) Blood Rev. 28(4):143-53.

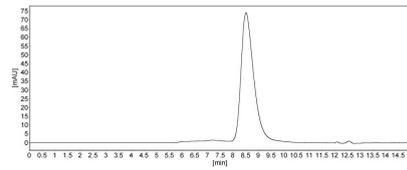
Synonyms

CD33 molecule, gp67, p67, Sialic acid-binding Ig-like lectin 3, SIGLEC 3

Selected Validation Data



Purity of Recombinant Human CD33 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human CD33 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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