

**Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine)
Recombinant Antibody
Catalog # APR10746****Specification****Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) - Product Information**

Application	FC, Kinetics, Animal Model
Primary Accession	P20138
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145 KDa

Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) - Additional Information**Target/Specificity**

Siglec-3 / CD33

Endotoxin

< 0.001EU/ µg, determined by LAL method.

Conjugation

PBD

Expression system

CHO Cell

Format

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) - Protein Information**Name** CD33**Synonyms** SIGLEC3**Function**

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 (PubMed: [10611343](http://www.uniprot.org/citations/10611343), PubMed: [11320212](http://www.uniprot.org/citations/11320212), PubMed: [15597323](http://www.uniprot.org/citations/15597323)). Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans (PubMed: [7718872](http://www.uniprot.org/citations/7718872)). Upon engagement of ligands such as C1q or sialylated glycoproteins, two immunoreceptor tyrosine-based inhibitory motifs (ITIMs) located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK (PubMed: [10887109](http://www.uniprot.org/citations/10887109))

target="_blank">10887109, PubMed:28325905). These phosphorylations provide docking sites for the recruitment and activation of protein-tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2 (PubMed:10206955, PubMed:10556798, PubMed:10887109). In turn, these phosphatases regulate downstream pathways through dephosphorylation of signaling molecules (PubMed:10206955, PubMed:10887109). One of the repressive effect of CD33 on monocyte activation requires phosphoinositide 3-kinase/PI3K (PubMed:15597323).

Cellular Location

[Isoform CD33M]: Cell membrane; Single-pass type I membrane protein

Tissue Location

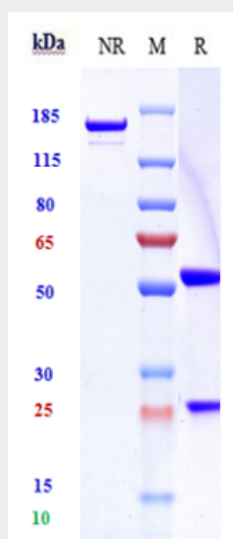
Monocytic/myeloid lineage cells. In the brain, CD33 is mainly expressed on microglial cells

Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) - Protocols

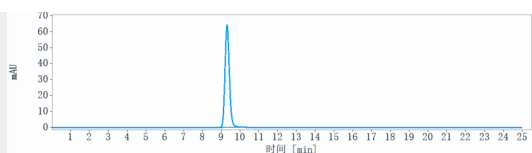
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) - Images



Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-Siglec-3 / CD33 Reference Antibody (vadastuximab talirine) is more than 95% ,determined by SEC-HPLC.