

**Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin)  
Recombinant Antibody  
Catalog # APR10273****Specification**

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**Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P20138</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145 KDa

**Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) - Additional Information****Target/Specificity**  
Siglec-3 / CD33**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.**Conjugation**  
#N/A**Expression system**  
CHO Cell**Format**  
Purified monoclonal antibody supplied in 100mM Pro-Ac, 20mM Arg, pH5.0, without preservative.This antibody is purified through a protein A column.**Storage**  
-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.**Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) - 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:<a href="http://www.uniprot.org/citations/10611343" target="\_blank">10611343</a>, PubMed:<a href="http://www.uniprot.org/citations/11320212" target="\_blank">11320212</a>, PubMed:<a href="http://www.uniprot.org/citations/11320212" target="\_blank">11320212</a>).

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

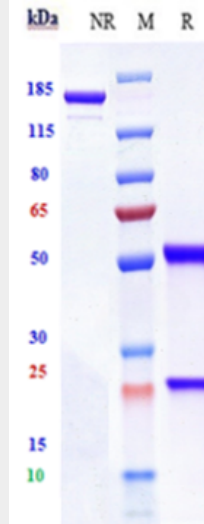
### Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) - Protocols

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

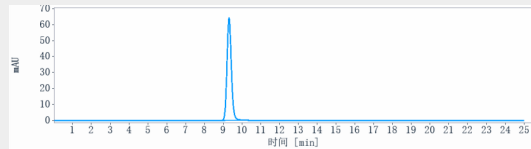
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) - Images





Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) 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 (Gemtuzumab ozogamicin) is more than 95% ,determined by SEC-HPLC.