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

Recombinant Antibody
Catalog # APR10273

Specification

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

Application	**FC, E, FTA**
Primary Accession	P20138
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.

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:10611343, PubMed:11320212, PubMed:15597323). Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans (PubMed:7718872). Upon engagement of ligands such as C1q or syalylated glycoproteins, two immunoreceptor

tyrosine-based inhibitory motifs (ITIMs) located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK (PubMed: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

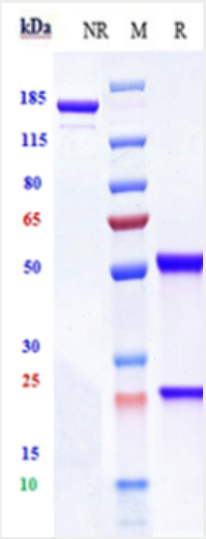
Tissue Location
Monocytic/myeloid lineage cells. In the brain, CD33 is mainly expressed on microglial cells

Anti-Siglec-3 / CD33 Reference Antibody (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 Cytomety
- Cell Culture

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



Anti-Siglec-3 / CD33 Reference Antibody (Gemtuzumab ozogamicin) on SDS-PAGE under reducing

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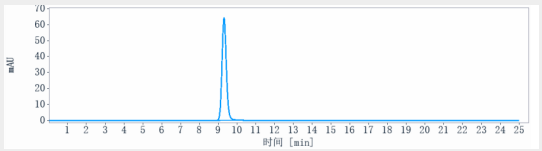
(R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



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