

CD33 Rabbit mAb
Catalog # AP77800**Specification**

CD33 Rabbit mAb - Product Information

| | |
|-------------------|----------------------------|
| Application | WB |
| Primary Accession | P20138 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Monoclonal Antibody |
| Calculated MW | 39825 |

CD33 Rabbit mAb - Additional Information

Gene ID 945

Other Names

CD33

Dilution

WB~~1/500-1/1000

Format

Liquid

CD33 Rabbit mAb - 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 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, 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

CD33 Rabbit mAb - 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](#)

CD33 Rabbit mAb - Images

