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# Anti-CD33-AcalephFluor405-labled

Catalog # AP101435

## Product Information

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| **Application** | FC, IF/IC |
| **Primary Accession** | P20138 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 39825 |

## Additional Information

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| **Gene ID** | 945 |
| **Other Names** | SIGLEC3; Myeloid cell surface antigen CD33; Sialic acid-binding Ig-like lectin 3; Siglec-3; gp67; CD antigen CD33 |
| **Target/Specificity** | Recognizes human CD33 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG1. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **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). |

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| **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 |

## Background

AcalephFluor405-labled mouse monoclonal antibody to CD33

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.