# Product datasheet

## anti-CD33/SIGLEC3 mouse monoclonal, 33-20, purified

### Short overview

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|---|---|
| **Cat. No.** | 691576 |
| **Quantity** | 1 ml (100 µg/ml) |
| **Concentration** | 100 µg/ml |

### Product description

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|---|---|
| **Host** | Mouse |
| **Antibody Type** | Monoclonal |
| **Isotype** | IgG1 kappa |
| **Clone** | 33-20 |
| **Immunogen** | Stimulated human AML cells |
| **Formulation** | PBS with 0.02% sodium azide |
| **UniprotID** | P20138 (Human) |
| **Synomym** | Myeloid cell surface antigen CD33, Sialic acid-binding Ig-like lectin 3, Siglec-3, gp67, CD antigen CD33, CD33, SIGLEC3 |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity chromatography |
| **Storage** | 2-8°C |
| **Intended use** | Research use only |
| **Application** | FACS, ICC/IF, IHC |
| **Reactivity** | Human |

### Applications

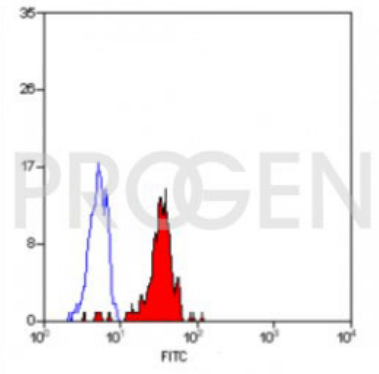
| | |
|---|---|
| **Flow Cytometry (FACS)** | 1-2 µg/million cells |
| **Immunocytochemistry (ICC)** | 1:50-1:100 (1-2 µg/ml) |
| **Immunohistochemistry (IHC) - frozen** | 1:50-1:100 (1-2 µg/ml) |

### Background

CD33 is a 67 kDa glycoprotein of the sialic acid-binding immunoglobulin-like lectin (SIGLEC) family, displaying the immune-receptor tyrosine-based inhibitory motif (ITIM), able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies. ITIMs are also used for ubiquitin-mediated removal of the receptor from the cell surface. CD33 is expressed on cells of myelomonocytic linage, binds sialic acid residues in N- and O-glycans on cell surfaces, and is a therapeutic target for acute myeloid leukemia. CD33 is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. It is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.

Positive control: human dendritic and mast cells. Human lymph node and tonsil.

### Product images



FACS with human peripheral blood lymphocytes (PBL)