



## Mouse anti CD33 Monoclonal Antibody

Alternative Name(s): p67; SIGLEC3; SIGLEC-3

### Order Information

- **Description:** CD33
- **Catalogue:** 604-201
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** CD33-4D3
- **Application:** IHC(P), FC
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A recombinant protein of CD33 protein

### **BACKGROUND**

CD33, a 67 kD type I transmembrane glycoprotein, is a smallest member of a sialoadhesion immunoglobulin superfamily. It contains two Ig-like extracellular domains and two ITIM-like sequences in their cytoplasmic domain. This receptor is expressed on cells of myeloid lineage, but it can also be found on some lymphoid cells. Wide subsets of mitogen- or alloantigen-activated human T and natural killer (NK) cells express CD33. CD33 is highly expressed on myeloid-committed cells of the bone marrow and circulating monocytes. CD33 expression is down-regulated to low levels on peripheral granulocytes and resident macrophages, and it is constitutive on DC. This expression pattern suggests a role of CD33 on myeloid differentiation and cellular function of monocyte and DC. Myeloid and lymphoid CD33 cDNA are identical. CD33 functions as a sialic acid-dependent cell adhesion molecule with carbohydrate/lectin binding activity. After phosphorylation, CD33 is capable of recruiting the protein tyrosine phosphatases Src homology-2-containing tyrosine phosphatase-1 (SHP-1) and SHP-2 and may function as an inhibitory receptor by coligation with CD64 on myeloid cells

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human CD33 protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/10<sup>6</sup> cells
- Molecular Weight: 67.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)



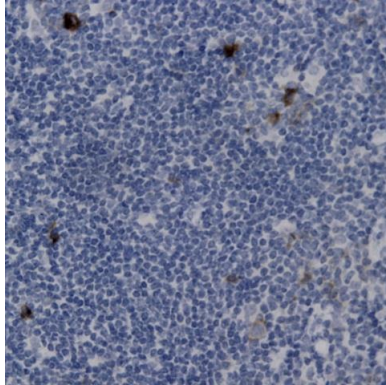
\*Optimal dilutions should be determined by researchers for the specific applications.

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## DATA ATTACHMENTS



Immunohistochemistry: Human breast carcinoma (FFPE) stained with Mouse anti- CD33 (Cat# 604-201) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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