Mouse anti CD33 Monoclonal Antibody

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

Order Information

- **Description:** CD33
- **Catalogue:** 604-200
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** WM53
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of CD 33 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/106 cells
- Molecular Weight: 67.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

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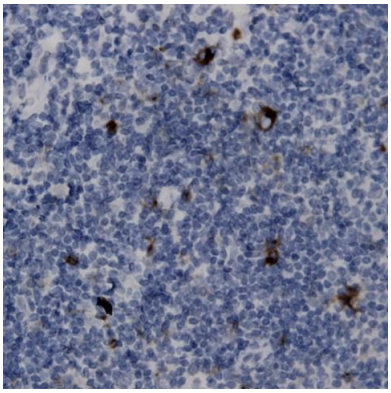
DATA ATTACHMENTS



Immunohistochemistry: Human breast carcinoma (FFPE) stained with Mouse anti-CD33 (Cat# 604-200) 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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