

Anti-CD33 Antibody

Catalog # ABO12781

Specification

Anti-CD33 Antibody - Product Information

ApplicationWB, IHCPrimary AccessionQ63994HostRabbitReactivityMouseClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Myeloid cell surface antigen CD33(CD33) detection. Tested withWB, IHC-P in Mouse.WB, IHC-P in Mouse.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CD33 Antibody - Additional Information

Gene ID 12489

Other Names Myeloid cell surface antigen CD33, Sialic acid-binding Ig-like lectin 3, Siglec-3, CD33, Cd33, Siglec3

Calculated MW 44824 MW KDa

Application Details Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Mouse, By Heat

Western blot, 0.1-0.5 μg/ml, Mouse

Subcellular Localization Cell membrane; Single-pass type I membrane protein.

Protein Name Myeloid cell surface antigen CD33

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E. coli-derived mouse CD33 recombinant protein (Position: D18-E240). Mouse CD33 shares 61.6% amino acid (aa) sequence identity with human CD33.

Purification Immunogen affinity purified.

Cross Reactivity



No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-CD33 Antibody - 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 (By similarity). Preferentially binds sialic acid to the short O-linked glycans of certain mucins (PubMed:12773563).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P20138}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P20138}

Tissue Location

Expressed on myeloid precursors in the bone marrow. In the peripheral blood, mostly expressed on granulocytes

Anti-CD33 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-CD33 Antibody - Images



100KD -70KD -55KD -35KD -25KD -

Western blot analysis of CD33 expression in mosue lung extract (lane 1). CD33 at 45KD was detected using rabbit anti-CD33 Antigen Affinity purified polyclonal antibody (Catalog # AB012781) at 0.5 \hat{l}_{4} g/mL. The blot was developed using chemiluminescence (ECL) method .



CD33 was detected in paraffin-embedded sections of mouse pleen tissues using rabbit anti- CD33 Antigen Affinity purified polyclonal antibody (Catalog # ABO12781) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-CD33 Antibody - Background

CD33, also known as Siglec-3 (sialic acid binding Ig-like lectin 3, SIGLEC3, SIGLEC-3, gp67, p67), is a transmembrane receptor expressed on cells of myeloid lineage. It is usually considered myeloid-specific, but it can also be found on some lymphoid cells. CD33 binds sialic acids, therefore is a member of the SIGLEC family of lectins. By fluorescence in situ hybridization, CD33 is mapped to 19q13.3-q13.4.