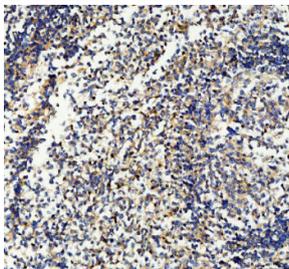


## Anti-CD33 Antibody (R32381)

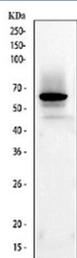
Catalog No.	Formulation	Size
R32381	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P20138
<b>Localization</b>	Cytoplasmic, membranous
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
<b>Limitations</b>	This anti-CD33 antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with CD33 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human ThP-1 cell lysate with anti-CD33 antibody. Predicted molecular weight is 40-67 kDa depending on glycosylation level.

## Description

CD33 is a transmembrane receptor that belongs to the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It is primarily expressed on cells of the myeloid lineage, including monocytes, granulocytes, and some stem and progenitor cells. CD33 functions as an inhibitory receptor by recruiting signaling molecules with immunoreceptor tyrosine-based inhibitory motifs (ITIMs), which help regulate cell activation, proliferation, and immune responses. A CD33 antibody is widely used in studies of hematopoietic biology, immune regulation, and myeloid cell signaling.

In the bone marrow, CD33 expression marks myeloid progenitors and is frequently used as a diagnostic marker in hematological research. The receptor modulates cytokine production and influences cell-cell interactions within the immune system. Using a CD33 antibody enables researchers to identify myeloid cells, monitor lineage development, and evaluate immune modulation.

CD33 has gained significant attention in the field of oncology. It is highly expressed in acute myeloid leukemia (AML) blasts, making it a clinically relevant target for antibody-based therapies and immunotoxins. Its restricted expression on normal tissue and elevated presence on AML cells have positioned CD33 as an important therapeutic target. Employing a CD33 antibody allows researchers to study expression patterns in AML and evaluate the efficacy of targeted treatments.

NSJ Bioreagents offers a high-quality CD33 antibody validated for applications such as flow cytometry, western blotting, and immunohistochemistry. Choosing a CD33 antibody from NSJ Bioreagents ensures accuracy and reproducibility in research on hematopoietic development, immune regulation, and cancer biology.

## Application Notes

Optimal dilution of the anti-CD33 antibody should be determined by the researcher.

## Immunogen

Amino acids D18-H259 of the human protein were used as the immunogen for the anti-CD33 antibody.

## Storage

After reconstitution, the anti-CD33 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.