Datasheet for ABIN4886523

# anti-CD33 antibody (AA 18-259)

3 Images

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## Overview

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| Quantity: | 100 µg |
| Target: | CD33 |
| Binding Specificity: | AA 18-259 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CD33 antibody is un-conjugated |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC) |

## Product Details

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| Purpose: | Anti-CD33 Antibody Picoband® |
| Immunogen: | E. coli-derived human CD33 recombinant protein (Position: D18-H259). Human CD33 shares 61.6% amino acid (aa) sequence identity with mouse CD33. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-CD33 Antibody Picoband® (ABIN4886523). Tested in Flow Cytometry, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |

## Product Details

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| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | CD33 |
| Alternative Name: | CD33 (CD33 Products) |
| Background: | Synonyms: Myeloid cell surface antigen CD33,Sialic acid-binding Ig-like lectin 3,Siglec-3,gp67,CD33,CD33,SIGLEC3,<br>Tissue Specificity: Monocytic/myeloid lineage cells.<br>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. |
| Molecular Weight: | 45 kDa |
| Gene ID: | 945 |
| UniProt: | P20138 |

## Application Details

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| Application Notes: | Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL<br>Immunohistochemistry (Frozen Section), 0.5-1 µg/mL<br>Immunocytochemistry, 0.5-1 µg/mL<br>Western blot, 0.1-0.5 µg/mL<br>Flow Cytometry, 1-3 µg/1x$10^6$cells<br>1. Adriaansen, H. J., Geurts Van Kessel, A. H. M., Wijdenes-De Bresser, J. H. F. M., Van Drunen-Schoenmaker, E., Van Dongen, J. J. M.Expression of the myeloid differentiation antigen CD33 depends on the presence of human chromosome 19 in human-mouse hybrids. Ann. Hum. Genet. 54: 115-119, 1990. 2. Brinkman-Van der Linden, E. C. M., Angata, T., Reynolds, S. A., Powell, L. D., Hedrick, S. M., Varki, A. CD33/Siglec-3 binding specificity, expression pattern, and consequences of gene deletion in mice. Molec. Cell. Biol. 23: 4199-4206, 2003. 3. Trask, B., Fertitta, A., Christensen, M., Youngblom, J., Bergmann, A., Copeland, A., de Jong, P., Mohrenweiser, H., Olsen, A., Carrano, A., Tynan, K. Fluorescence in situ hybridization mapping of human chromosome 19: cytogenetic band location of 540 cosmids and 70 genes or DNA markers. Genomics 15: 133-145, 1993. |

## Application Details

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| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

## Handling

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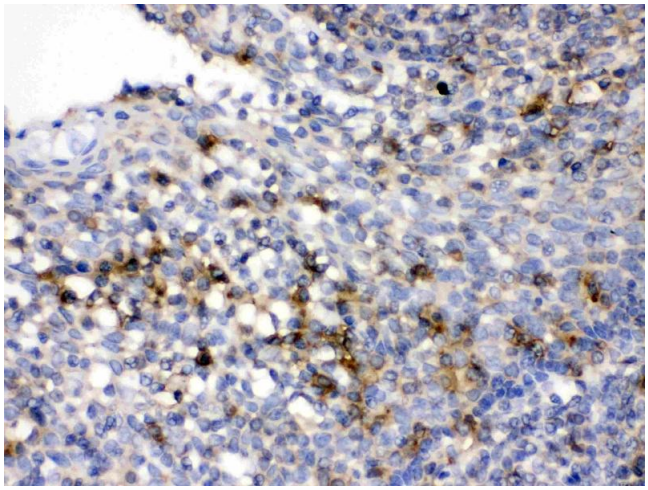
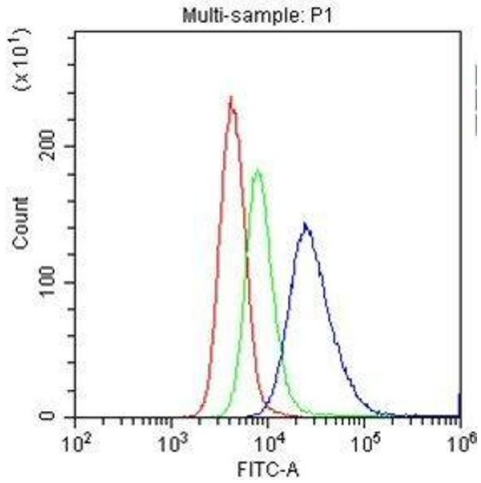
| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |

## Images



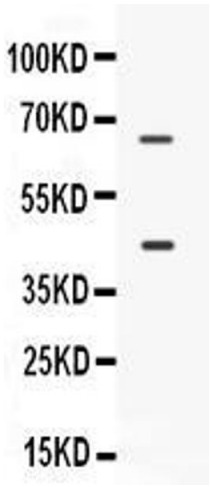
**Immunohistochemistry**

**Image 1.** CD33 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- CD33 Antigen Affinity purified polyclonal antibody (Catalog # ) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).




## Flow Cytometry

**Image 2.** Flow Cytometry analysis of U937 cells using anti-CD33 antibody . Overlay histogram showing U937 cells stained with (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD33 Antibody (,1µg/1x106 cells) for 30 min at 20°C. DyLight?488 conjugated goat anti-rabbit IgG (BA1127, 5-10µg/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.




## Western Blotting

**Image 3.** Western blot analysis of CD33 expression in SKOV3 whole cell lysates ( Lane 1). CD33 at 45KD; 67KD was detected using rabbit anti-CD33 Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).