

TotalSeq™-B0052 anti-human CD33 Antibody

Catalog# / Size	366635 / 10 µg
Clone	P67.6
Regulatory Status	RUO
Other Names	Siglec-3, gp67, p67
Isotype	Mouse IgG1, κ
Barcode Sequence	TAACTCAGGGCCTAT
Description	CD33, also known as Siglec-3, gp67, and p67, is a 67 kD type I transmembrane glycoprotein. It is a sialoadhesion immunoglobulin superfamily member, which is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells, and mast cells. CD33 is absent on normal platelets, lymphocytes, erythrocytes, and hematopoietic stem cells. CD33 functions as a sialic acid-dependent cell adhesion molecule with carbohydrate/lectin binding activity.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	FMY9S5 cells expressing CD33 gene.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-B oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions .

To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.

Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.

Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq .
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The barcode flanking sequences are GTGACTGGAGTTTCAGACGTGTGCTCTCCGATCTNNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

1. Hoyer J, *et al.* 2008. *Am. J. Clin. Pathol.* 129:316.

RRID AB_2860950 (BioLegend Cat. No. 366635)

Antigen Details

Structure	Ig superfamily, sialoadhesins, type I glycoprotein, 67 kD
Distribution	Myeloid progenitor, monocytes, granulocytes, dendritic cells, and mast cells.
Function	Adhesion and lectin binding activity.
Ligand/Receptor	Sugar chains containing sialic acid.
Cell Type	Dendritic cells, Granulocytes, Hematopoietic stem and progenitors, Mast cells, Monocytes
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules, Siglec Molecules
Antigen References	1. Favaloro E, <i>et al.</i> 1988. <i>Br. J. Haematol.</i> 69:163. 2. Freeman S, <i>et al.</i> 1995. <i>Blood</i> 85:2005.
Gene ID	945

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

Purified anti-human CD33, Purified anti-CD33, APC anti-human CD33, PE anti-human CD33, Brilliant Violet 510™ anti-human CD33, Brilliant Violet 605™ anti-human CD33, APC/Cyanine7 anti-human CD33, PerCP/Cyanine5.5 anti-human CD33, PE/Cyanine7 anti-human CD33, FITC anti-human CD33, Brilliant Violet 421™ anti-human CD33, Biotin anti-human CD33, Alexa Fluor® 647 anti-human CD33, Brilliant Violet 711™ anti-human CD33, TotalSeq™-A0052 anti-human CD33, APC/Fire™ 750 anti-human CD33, TotalSeq™-C0052 anti-human CD33, TotalSeq™-B0052 anti-human CD33, TotalSeq™-D0052 anti-human CD33

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