

TotalSeq™-A0857 anti-mouse CD34 Antibody

Catalog# / Size	128619 / 10 µg
Clone	HM34
Regulatory Status	RUO
Other Names	Mucosialin
Isotype	Armenian Hamster IgG
Barcode Sequence	GATTCCTTTACGAGC
Description	CD34 is a highly glycosylated hematopoietic progenitor antigen. Two isoforms of CD34 have been reported. CD34 is expressed on hematopoietic progenitors, as well as endothelial cells, brain and testis. CD34 is thought to function as an adhesion molecule for attachment of stem cells to extracellular matrix or stromal cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Mouse CD34 transfected BHK cells
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™-A 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	<p>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™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions.</p> <p>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.</p> <p>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.</p>
Application Notes	The HM34 antibody does not stain bone marrow cells like some other mouse CD34 antibodies, probably because the antibody recognizes a different epitope from other mAbs.
Additional Product Notes	<p>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.</p> <p>The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A (capture sequence). B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.</p>

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

Product Citations

1. Guilliams M, *et al.* 2022. Cell. 185:379. [PubMed](#)

RRID

AB_2810392 (BioLegend Cat. No. 128619)

Antigen Details

Structure	Type I membrane protein, highly glycosylated, 75-120 kd, two isoforms reported.
Distribution	Hematopoietic progenitors, brain, testis, endothelial cells
Function	Possible adhesion molecules thought to function in early hematopoiesis by mediating attachment of stem cells to bone marrow extracellular matrix or stromal cells. Present carbohydrate ligands to selectins.
Ligand/Receptor	L-selectin, and others.
Cell Type	Endothelial cells, Hematopoietic stem and progenitors
Biology Area	Cell Biology, Immunology, Neuroinflammation, Neuroscience
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Garlanda C, <i>et al.</i> 1997. <i>Eur J Cell Biol</i> 73:368 2. Brown J, <i>et al.</i> 1991. <i>Int Immunol</i> 3:175
Gene ID	12490

Related Protocols

[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 Protocol](#)

Other Formats

Purified anti-mouse CD34, Biotin anti-mouse CD34, Alexa Fluor® 647 anti-mouse CD34, PerCP/Cyanine5.5 anti-mouse CD34, PE anti-mouse CD34, APC anti-mouse CD34, APC/Fire™ 750 anti-mouse CD34, PE/Dazzle™ 594 anti-mouse CD34, PE/Cyanine7 anti-mouse CD34, TotalSeq™-A0857 anti-mouse CD34, APC/Cyanine7 anti-mouse CD34, TotalSeq™-C0857 anti-mouse CD34, TotalSeq™-B0857 anti-mouse CD34

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587