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TotalSeq™-C0199 anti-human Siglec-8 Antibody

Catalog# / Size	347115 / 10 µg
Clone	7C9
Regulatory Status	RUO
Other Names	Sialic acid-binding Ig-like lectin 8 (Siglec-8), Siglec8L, Sialoadhesin family member 2 (SAF2)
Isotype	Mouse IgG1, κ
Barcode Sequence	CTTCTCCTCAGCAAT
Description	Siglec-8 is a lectin specific for 6'-sulfo-sLe ^x and a member of the Ig-superfamily. It is expressed almost exclusively in eosinophils; however, basophils and mast cells can express it to a lower degree. Siglec-8 is a 54 kD transmembranal protein; the extracellular domain has one V-set Ig-like domain and two C2-set domains. The cytoplasmic domain has two immunoreceptor tyrosine-based inhibitor motifs (ITIM) that recruit SH2-family phosphatases after tyrosine phosphorylation. There are reports that siglec-8 inhibits the release of histamine and prostaglandin D2 mediated by the IgEFCR. This molecule is also involved in the induction of apoptosis.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant Siglec-8 fused to human IgG Fc
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™-C 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™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</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>

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 CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*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. Floyd H, *et al.* 2000. *J. Biol. Chem.* 275:861.
2. Wen T, *et al.* 2014. *J Immunol.* 192:5481. [PubMed](#)

RRID AB_2860908 (BioLegend Cat. No. 347115)

Antigen Details

Structure	A lectin of 54 kD, belonging to the Ig-superfamily; has one V-set Ig-like domain and two C2-set domains; has a single transmembrane domain, and two immunoreceptor tyrosine-based inhibitor motifs (ITIM) in the cytoplasmic domain
Distribution	Eosinophils, basophils, mast cells
Function	Cell adhesion, signal transduction
Interaction	Phosphatases containing a SH2 domain
Bioactivity	Inhibition of IgE receptor-triggered histamine and prostaglandin D2 release, apoptosis
Cell Type	Basophils, Eosinophils, Mast cells
Biology Area	Cell Adhesion, Cell Biology, Immunology, Signal Transduction
Molecular Family	Adhesion Molecules, Siglec Molecules
Antigen References	<ol style="list-style-type: none">1. Bochner BS, <i>et al.</i> 2009. <i>Clin. Exp. Allergy.</i> 39:317.2. Hudson SA, <i>et al.</i> 2009. <i>J. Pharmacol. Exp. Ther.</i> 330:608.3. Nutku E, <i>et al.</i> 2005. <i>Biochem. Biophys. Res. Commun.</i> 336:918.
Gene ID	27181

Related Protocols

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

Other Formats

Purified anti-human Siglec-8, PE anti-human Siglec-8, APC anti-human Siglec-8, PE/Dazzle™ 594 anti-human Siglec-8, PE/Cyanine7 anti-human Siglec-8, PerCP/Cyanine5.5 anti-human Siglec-8, TotalSeq™-C0199 anti-human Siglec-8, PE/Cyanine5 anti-human Siglec-8, TotalSeq™-D0199 anti-human Siglec-8, Biotin anti-human Siglec-8, Alexa Fluor® 647 anti-human Siglec-8, TotalSeq™-A0199 anti-human Siglec-8

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