

Brilliant Violet 605™ anti-mouse CD170 (Siglec-F) Antibody

Catalog# / Size	155547 / 50 µg
Clone	S17007L
Regulatory Status	RUO
Other Names	Siglec-5
Isotype	Rat IgG2a, κ
Description	CD170, also known as Siglec-F and Siglec-5, is a member of the sialic acid-binding immunoglobulin-like lectin (siglec) family of type I single pass transmembrane proteins. Siglec-F has four extracellular Ig-like domains and two cytoplasmic ITIM motifs and preferentially binds [alpha]-2,3-linked sialic acid. Siglec-F is expressed on eosinophils, alveolar macrophages and intestinal microfold (M) cells and induces apoptosis of lung eosinophils during allergic asthma.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)

Antigen Details

Structure	Member of the Sialic acid-binding Ig-like lectin family, type I, single pass, transmembrane protein, 4 extracellular Ig-like domains, 2 ITIM motifs in the cytoplasmic domain
Distribution	Eosinophils, alveolar macrophages, intestinal microfold (M) cells
Function	Induces apoptosis in eosinophils
Ligand/Receptor	[alpha]-2,3-linked sialic acid
Cell Type	Eosinophils, Macrophages
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Immunology, Innate Immunity
Molecular Family	CD Molecules, Siglec Molecules
Antigen References	<ol style="list-style-type: none"> 1. Gicheva N, <i>et al.</i> 2016. <i>Biochem. Biophys. Res. Commun.</i> 479:1. 2. Kiwamoto T, <i>et al.</i> 2015. <i>J. Allergy Clin. Immunol.</i> 135:1329. 3. Suzukawa M, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:5939. 4. Patnode ML, <i>et al.</i> 2013. <i>J. Biol. Chem.</i> 288:26533.

Gene ID [233186](#)

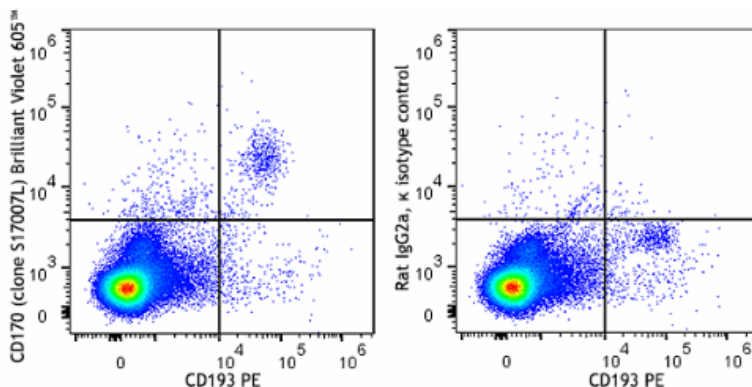
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD170 (Siglec-F), FITC anti-mouse CD170 (Siglec-F), PE anti-mouse CD170 (Siglec-F), APC anti-mouse CD170 (Siglec-F), Brilliant Violet 421™ anti-mouse CD170 (Siglec-F), Biotin anti-mouse CD170 (Siglec-F), TotalSeq™-A0431 anti-mouse CD170 (Siglec-F), TotalSeq™-C0431 anti-mouse CD170 (Siglec-F), TotalSeq™-B0431 anti-mouse CD170 (Siglec-F), Alexa Fluor® 647 anti-mouse CD170 (Siglec-F) Antibody, KIRAVIA Blue 520™ anti-mouse CD170 (Siglec-F) Antibody, Alexa Fluor® 488 anti-mouse CD170 (Siglec-F) Antibody, PerCP/Cyanine5.5 anti-mouse CD170 (Siglec-F) Antibody, PE/Cyanine7 anti-mouse CD170 (Siglec-F) Antibody, PE/Dazzle™ 594 anti-mouse CD170 (Siglec-F) Antibody, APC/Cyanine7 anti-mouse CD170 (Siglec-F), Alexa Fluor® 700 anti-mouse CD170 (Siglec-F), PerCP/Fire™ 806 anti-mouse CD170 (Siglec-F), Brilliant Violet 711™ anti-mouse CD170 (Siglec-F), APC/Fire™ 750 anti-mouse CD170 (Siglec-F), APC/Fire™ 810 anti-mouse CD170 (Siglec-F), Spark Blue™ 574 anti-mouse CD170 (Siglec-F) (Flexi-Fluor™), Spark Blue™ 550 anti-mouse CD170 (Siglec-F) (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse CD170 (Siglec-F) Antibody, Brilliant Violet 785™ anti-mouse CD170 (Siglec-F) Antibody, Brilliant Violet 605™ anti-mouse CD170 (Siglec-F) Antibody, Spark Red™ 718 anti-mouse CD170 (Siglec-F) Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD193 (CCR3) (clone J073E5) PE and anti-mouse CD170 (Siglec-F) (clone S17007L) Brilliant Violet 605™ (left) or rat IgG2a, κ Brilliant Violet 605™ isotype control (right).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

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