

## Spark Red™ 718 anti-mouse CD170 (Siglec-F) Antibody

<b>Catalog# / Size</b>	155549 / 25 µg 155550 / 100 µg
<b>Clone</b>	S17007L
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Siglec-5
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

---

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Spark Red™ 718 under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark Red™ 718 has a maximum excitation of 697 nm and a maximum emission of 711 nm.
<b>Excitation Laser</b>	Red Laser (633 nm)

### Antigen Details

---

<b>Structure</b>	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
<b>Distribution</b>	Eosinophils, alveolar macrophages, intestinal microfold (M) cells
<b>Function</b>	Induces apoptosis in eosinophils
<b>Ligand/Receptor</b>	[alpha]-2,3-linked sialic acid
<b>Cell Type</b>	Eosinophils, Macrophages
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Immunology, Innate Immunity

## Molecular Family

CD Molecules, Siglec Molecules

## Antigen References

1. Gicheva N, *et al.* 2016. *Biochem. Biophys. Res. Commun.* 479:1.
2. Kiwamoto T, *et al.* 2015. *J. Allergy Clin. Immunol.* 135:1329.
3. Suzukawa M, *et al.* 2013. *J. Immunol.* 190:5939.
4. Patnode ML, *et al.* 2013. *J. Biol. Chem.* 288:26533.

## Gene ID

[233186](#)

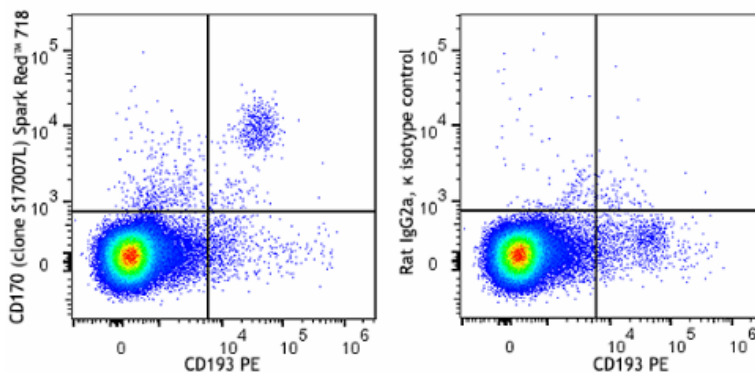
## Related Protocols

- [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) Spark Red™ 718 (left) or rat IgG2a, κ Spark Red™ 718 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](http://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](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587