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

Catalog# / Size	155549 / 25 µg 155550 / 100 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
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark Red™ 718 under optimal conditions.
Concentration	0.5 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	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 ≤ 0.25 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.
Excitation Laser	Red Laser (633 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

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

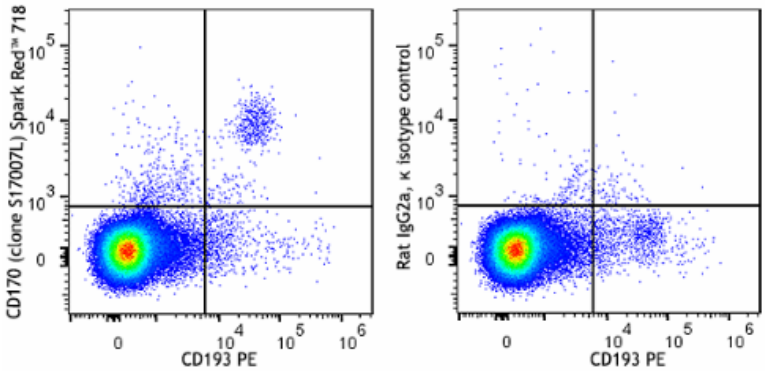
Related Protocols

- 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).

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