

Spark Red™ 718 anti-mouse Siglec-G Antibody

Catalog# / Size	163313 / 25 µg 163314 / 100 µg
Clone	SH1
Regulatory Status	RUO
Other Names	Siglec10, Sialic acid-binding Ig-like lectin G
Isotype	Mouse IgG1, κ
Description	Siglec-G is a member of the CD33-related Siglec (sialic acid-binding, immunoglobulin-like lectin) family. Siglec-G is the orthologue of human Siglec-10. It is a 110-120 kDa, 688 amino acid type I transmembrane protein and contains five extracellular immunoglobulin domains and an intracellular region with three conserved tyrosine-based motifs. It is an inhibitory receptor that is expressed in a B cell-restricted way, with particularly high expression in Pre-B and B1a cells. Upon stimulation with an antigen, Siglec-G is recruited to IgM, which is further phosphorylated inhibiting IgM-induced Ca ²⁺ signaling and NFATc1 expression.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Mouse
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 ≤ 0.5 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)
RRID	AB_3698927 (BioLegend Cat. No. 163313) AB_3698927 (BioLegend Cat. No. 163314)

Antigen Details

Structure	Type I transmembrane protein that contains five extracellular immunoglobulin domains and an intracellular region with three conserved tyrosine-based motifs.
Distribution	B cells
Function	Inhibits IgM-induced Ca ²⁺ signaling and NFATc1 expression
Ligand/Receptor	Lectin

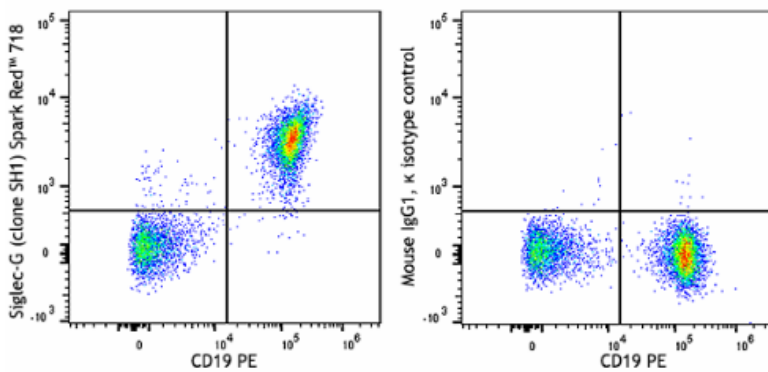
Related Protocols

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

Other Formats

Purified anti-mouse Siglec-G Antibody, PE anti-mouse Siglec-G, Alexa Fluor® 647 anti-mouse Siglec-G, Spark UV™ 387 anti-mouse Siglec-G, Brilliant Violet 421™ anti-mouse Siglec-G, Siglec-G (clone SH1) Spark YG™ Antibody, Spark Red™ 718 anti-mouse Siglec-G Antibody, Brilliant Violet 750™ anti-mouse Siglec-G, Brilliant Violet 605™ anti-mouse Siglec-G Antibody, Brilliant Violet 650™ anti-mouse Siglec-G Antibody, Brilliant Violet 785™ anti-mouse Siglec-G Antibody, Brilliant Violet 510™ anti-mouse Siglec-G Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD19 (clone 6D5) PE and anti-mouse Siglec-G (clone SH1) Spark Red™ 718 (left) or mouse IgG1, κ Spark Red™ 718 isotype control (right).

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