Spark PLUS V475™ anti-mouse Siglec H Antibody

Catalog# / Size	129623 / 25 µg
Clone	551
Regulatory Status	RUO
Other Names	Sialic acid-binding immunoglobulin-like lectin, SiglecH
Isotype	Rat IgG1, κ
Description	The Siglec-H is a member of CD33-related Siglec family which mostly expressed in the innate immune system. Siglec-H is reported to be specifically expressed on plasmacytoid dendritic cells. Siglec-H depends on adaptor protein DAP 12 (DNAX-activating protein of 12 kD) for surface expression and signal transduction. Cross-linking with this antibody can selectively inhibit interferon-alpha production by IPCs following TLR9 ligation.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Siglec-H-Fc recombinant fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS V475™ 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	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 PLUS V475™ has a maximum excitation of 404 nm and a maximum emission of 475 nm.
Excitation Laser	Violet Laser (405 nm)
Application References **(PubMed link indicates BioLegend citation)**	1. Blasius AL, *et al.* 2006. *J. Immunol.* 177:3260.
RRID	AB_3720614 (BioLegend Cat. No. 129623)

Antigen Details

Structure	Sialic acid-binding immunoglobulin-like lectins
Distribution	Siglec-H is expressed exclusively on natural interferon-producing cells (IPCs), also called plasmacytoid dendritic cells in spleen, blood and lymph nodes. The IPCs are characterized by a

complex phenotype (CD11c+, Ly-6C+, B220+, CD11b-, CD8+/-).

Function	Siglec-H associates with adaptor protein DAP12 for cell signaling, which reduces type 1 IFN response of IPC to CpG.
Ligand/Receptor	Sialic acid
Cell Type	Dendritic cells
Biology Area	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules, Siglec Molecules
Antigen References	1. Blasius AL, *et al.* 2006. *Blood* 107:2474. 2. Zhang J, *et al.* 2006. *Blood* 107:3600. 3. Blasius AL, *et al.* 2007. *J. Exp. Med.* 204:2561.
Gene ID	233274

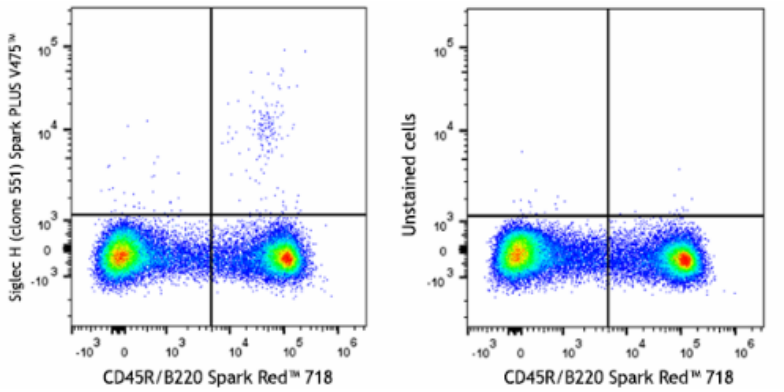
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

TotalSeq™-B0119 anti-mouse Siglec H, Purified anti-mouse Siglec H, FITC anti-mouse Siglec H, PE anti-mouse Siglec H, PerCP/Cyanine5.5 anti-mouse Siglec H, TotalSeq™-A0119 anti-mouse Siglec H, Spark PLUS UV395™ anti-mouse Siglec H, Spark Red™ 718 anti-mouse Siglec H (Flexi-Fluor™), Spark PLUS V475™ anti-mouse Siglec H, Pacific Blue™ anti-mouse Siglec H, TotalSeq™-C0119 anti-mouse Siglec H, Spark Blue™ 550 anti-mouse Siglec H (Flexi-Fluor™), Alexa Fluor® 647 anti-mouse Siglec H, APC anti-mouse Siglec H, Spark Blue™ 574 anti-mouse Siglec H (Flexi-Fluor™)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse/human CD45R/B220 (clone RA3-6B2) Spark Red™ 718 and anti-mouse Siglec H (clone 551) Spark PLUS V475™ (left) or stained with anti-mouse CD45R/B220 (clone RA3-6B2) Spark Red™ 718 only (right).

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