

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	1. Blasius AL, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:3260.
(PubMed link indicates BioLegend citation)	
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, <i>et al.</i> 2006. <i>Blood</i> 107:2474. 2. Zhang J, <i>et al.</i> 2006. <i>Blood</i> 107:3600. 3. Blasius AL, <i>et al.</i> 2007. <i>J. Exp. Med.</i> 204:2561.
Gene ID	233274

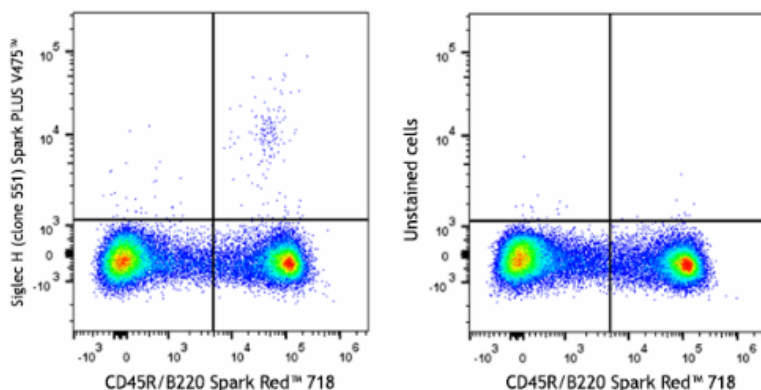
Related Protocols

- [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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