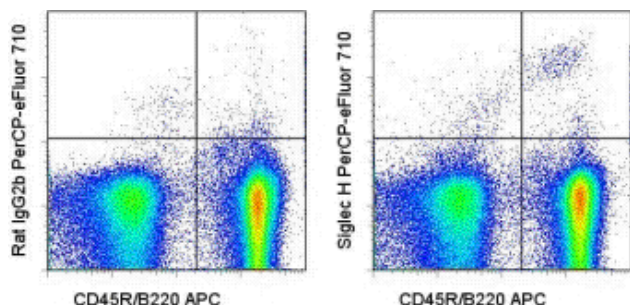


Anti-Mouse Siglec H PerCP-eFluor® 710

Catalog Number: 46-0333

Also Known As: Sialic Acid-Binding Immunoglobulin-Like Lectin H

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of SJL splenocytes with Anti-Human/Mouse CD45R (B220) PE (cat. 12-0452) and 0.06 ug of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (cat. 46-4031) (left) or 0.06 ug of Anti-Mouse Siglec H PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Siglec H PerCP-eFluor® 710

REF **Catalog Number:** 46-0333

Clone: eBio440c

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

Use By: Refer to Vial

Contains sodium azide

Description

The monoclonal antibody eBio440c recognizes Siglec-H, a protein exclusively found on pDC (plasmacytoid dendritic cells) or type I IFN-producing cells (IPC) in the naïve mouse. Mouse IPC are typically PDCA+, CD11c+, CD11b-, B220+, and Ly-6C+, and are quick to respond to viruses. Siglec-H is a transmembrane protein of the Ig superfamily that like CD33 have been shown to bind sialic acid but lacks the characteristic cytoplasmic ITIM domain (immunoreceptor tyrosine based inhibitory motif). To overcome the lack of a cytoplasmic domain, Siglec-H associates with DAP12 thereby allowing for signal transduction.

The eBio440c antibody has been shown to inhibit pDC function (inhibits IFN α secretion in response to CpG).

It has been observed that some mouse strains (such as SJL) have higher percentages of pDCs compared to C57BL/6.

Applications Reported

This eBio440c antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio440c antibody has been tested by flow cytometric analysis of SJL spleen cells. This can be used at less than or equal to 0.125 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

Kreisel FH, Blasius A, Kreisel D, Colonna M, Cella M. Interferon-producing cells develop from murine CD31(high)/Ly6C(-) marrow progenitors. Cell Immunol. 2006 Aug;242(2):91-8.

Blasius AL, Cella M, Maldonado J, Takai T, Colonna M. Siglec-H is an IPC-specific receptor that modulates type I IFN secretion through DAP12. Blood. 2006 Mar 15;107(6):2474-6.(440c, FC, PubMed)

Blasius AL, Giurisato E, Cella M, Schreiber RD, Shaw AS, Colonna M. Bone marrow stromal cell antigen 2 is a specific marker of type I IFN-producing cells in the naive mouse, but a promiscuous cell surface antigen following IFN stimulation. J Immunol. 2006 Sep 1;177(5):3260-5. (440c, FC, PubMed)

Blasius A, Vermi W, Krug A, Facchetti F, Cella M, Colonna M. A cell-surface molecule selectively expressed on murine natural interferon alpha producing cells that blocks secretion of interfero nalpha. Blood. 2004;103:4201-4206 (440c, FC, IH/F, FA PubMed)

Related Products

12-0452 Anti-Human/Mouse CD45R (B220) PE (RA3-6B2)

12-3172 Anti-Mouse CD317 (BST2, PDCA-1) PE (eBio927)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

Legal

Pat. No. pending

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