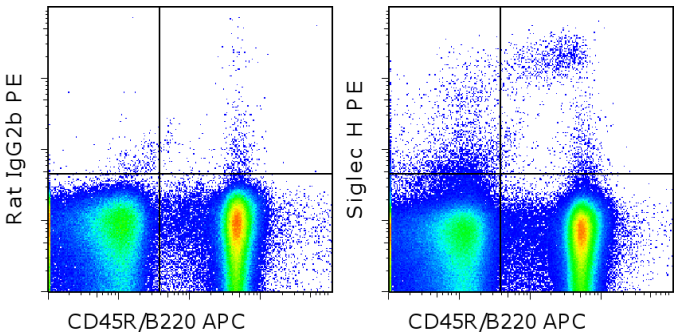
Anti-Mouse Siglec H PE

Catalog Number: 12-0333
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of SJL splenocytes with Anti-Human/Mouse CD45R (B220) APC (cat. 17-0452) and 0.06 ug of Rat IgG2b kappa Isotype Control PE (cat. 12-4031) (left) or 0.06 ug of Anti-Mouse Siglec H PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Siglec H PE
REF **Catalog Number:** 12-0333
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 (inhbits IFNalpha 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 mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. 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.

References

Amanda Blasius, William Vermi, Anne Krug, Fabio Facchetti, Marina Cella, and Marco Colonna. A cell-surface molecule selectively expressed on murine natural interferonalpha producing cells that blocks secretion of interferonalpha. Blood. 2004;103:4201-4206 (440c, FC, IH/F, FA 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)

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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. Epub 2005 Nov 17.(440c, FC, PubMed)

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.

Related Products
12-4031 Rat IgG2b K Isotype Control PE
14-4031 Rat IgG2b K Isotype Control Purified
17-0452 Anti-Human/Mouse CD45R (B220) APC (RA3-6B2)

Legal
Pat. No. pending

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