

Anti-Mouse Siglec H FITC

Catalog Number: 11-0333 Also Known As:Sialic Acid-Binding Immunoglobulin-Like Lectin H RUO: For Research Use Only. Not for use in diagnostic procedures.



Product Information

Contents: Anti-Mouse Siglec H FITC REF Catalog Number: 11-0333 Clone: eBio440c Concentration: 0.5 mg/mL Host/Isotype: Rat IgG2b Staining of SJL splenocytes with Anti-Human/Mouse CD45R (B220) PE (cat. 12-0452) (left), Anti-Mouse CD317 (BST2, PDCA-1) APC (right) and 0.125 ug of Anti-Mouse Siglec H FITC. Cells in the large forward scatter population were used for analysis.

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.

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Description

The monoclonal antibody eBio440c recognizes Siglec-H, a protein exclusively found on pDC (plasmacytoid dendritic cells) or type I IFNproducing 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 SJL mouse splenocytes. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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 IFNproducing 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

11-4031 Rat IgG2b K Isotype Control FITC 12-0452 Anti-Human/Mouse CD45R (B220) PE (RA3-6B2) 12-3171 Anti-Mouse CD317 (BST2, PDCA-1) PE (eBio129c (129c)) 17-3172 Anti-Mouse CD317 (BST2, PDCA-1) APC (eBio927)

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