

Anti-Mouse Siglec H Functional Grade Purified

Catalog Number: 16-0333

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 Functional Grade Purified
Catalog Number: 16-0333
Clone: eBio440c
Concentration: 1 mg/mL
Host/Isotype: Rat IgG2b
Handling Conditions: Use in sterile environment.
Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.



Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

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 blocking staining of the direct conjugate of eBio440c. This can be used at less than or equal to 2.0 μ g per test. A test is defined as the amount (ug) 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.

It is recommended that direct conjugates such as cat. 11-0333 be used rather than purified eBio440c antibody when performing flow cytometric analysis.

References

Amanda Blasius, William Vermi, Anne Krug, Fabio Facchetti, Marina Cella, and Marco Colonna. A cell-surface molecule selectively expressed on murine natural interferon α producing cells that blocks secretion of interferon α . 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)

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.

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Related Products

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

Legal

Pat. No. pending