
Anti-Mouse CD317 (BST2, PDCA-1) Purified


Catalog Number: 14-3171

Also Known As: plasmacytoid DC Ag-1, pDC Ag-1, BST 2, PDCA1

RUO: For Research Use Only

Product Information

Contents: Anti-Mouse CD317 (BST2, PDCA-1) Purified

 Catalog Number: 14-3171

Clone: eBio129c (129c)

Concentration: 0.5 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.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The eBio129c monoclonal antibody reacts with mouse PDCA-1 (BST2, CD317), a specific marker of plasmacytoid dendritic cells (pDC), also known as type I IFN-producing cells (IPC) in the naïve mouse. Mouse IPCs are typically CD11c+, CD11b-, B220+, Ly-6C+, and CD62L+. PDCA-1 is predominantly expressed by IPCs in the naïve mouse which represent a very minor population (<0.5%) of splenocytes. It is upregulated on numerous cell types following stimulation which triggers an IFN response. PDCA-1 cycles between cell surface and intracellular compartments and may function to regulate trafficking of secreted cytokines. PDCA-1 (BST2) is the protein recognized by the antibody 120G8.

The epitope recognized by eBio129c is distinct from eBio927; thus, the antibodies can be used to costain, purify and identify pDCs.

Applications Reported

This eBio129c (129c) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio129c (129c) antibody has been tested by flow cytometric analysis of BST2 transfected cells. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Blasius A.L., E. Giurisat, M. Cella, R.D. Schreiber, A.S. Shaw, M. Colonna. 2006. Bone Marrow Stromal Cell Antigen 2 Is a Specific Marker of Type I IFN-Producing Cells in the Naïve Mouse, but a Promiscuous Cell Surface Antigen Following IFN Stimulation. *J Immunol.* 177:3260-3265

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-3172 Anti-Mouse CD317 (BST2, PDCA-1) Purified (eBio927)

14-4031 Rat IgG2b K Isotype Control Purified

17-4317 Streptavidin APC

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