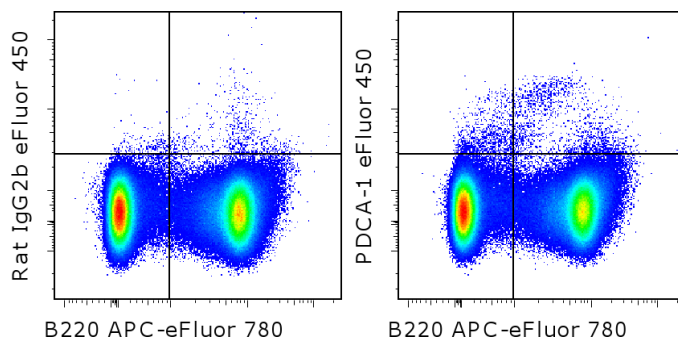


Anti-Mouse CD317 (BST2, PDCA-1) eFluor® 450

Catalog Number: 48-3172

Also known as: plasmacytoid DC Ag-1

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



Staining of SJL splenocytes with Anti-Human/Mouse CD45R (B220) APC-eFluor® 780 (cat. 47-0452) and 0.25 ug of Rat IgG2b K Isotype Control eFluor® 450 (cat. 48-4031) (left) or 0.25 ug of Anti-Mouse CD317 (BST2, PDCA-1) eFluor® 450 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD317 (BST2, PDCA-1) eFluor® 450

Catalog Number: 48-3172

Clone: eBio927

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa

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.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The eBio927 monoclonal antibody reacts with 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 represents 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 antibody 120G8.

The eBio927 monoclonal antibody has also been shown to have functional activity. The epitope recognized by eBio927 is distinct from eBio129c; thus, the antibodies can be used to costain, purify and identify pDCs.

Applications Reported

This eBio927 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio927 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (ug) 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.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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 (927, FC, FA)

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Related Products

47-0452 Anti-Human/Mouse CD45R (B220) APC-eFluor® 780 (RA3-6B2)

48-4031 Rat IgG2b K Isotype Control eFluor® 450