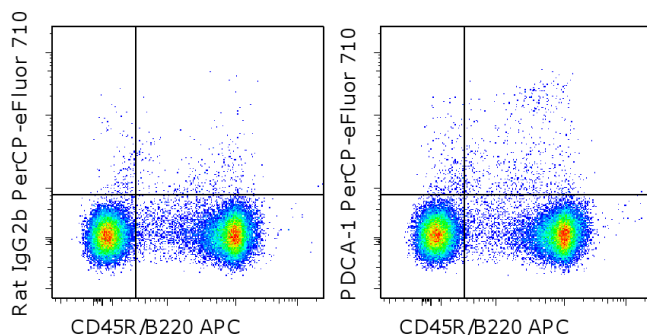


## Anti-Mouse CD317 (BST2, PDCA-1) PerCP-eFluor® 710

**Catalog Number:** 46-3172

**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 (cat. 17-0452) and 0.06 ug of Rat IgG2b K Isotype Control PerCP-eFluor® 710 (cat. 46-4031) (left) or 0.06 ug of Anti-Mouse CD317 (BST2, PDCA-1) PerCP-eFluor® 710 (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD317 (BST2, PDCA-1) PerCP-eFluor® 710

**Catalog Number:** 46-3172

**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 0.125 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Not for further distribution without written consent.

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## **Anti-Mouse CD317 (BST2, PDCA-1) PerCP-eFluor® 710**

**Catalog Number:** 46-3172

**Also known as:** plasmacytoid DC Ag-1

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Click here or contact eBioscience Technical Support for more information on eFluor® Organic Dyes including PerCP-eFluor® 710.

### **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)

### **Related Products**

17-0452 Anti-Human/Mouse CD45R (B220) APC (RA3-6B2)

46-4031 Rat IgG2b K Isotype Control PerCP-eFluor® 710

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