

# CD317 (BST2, PDCA-1) Monoclonal Antibody (eBio927), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio927
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596356

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	11 Publications

## Product Specific Information

**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 naive mouse. Mouse IPCs are typically CD11c+, CD11b-, B220+, Ly-6C+, and CD62L+. PDCA-1 is predominantly expressed by IPCs in the naive 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.

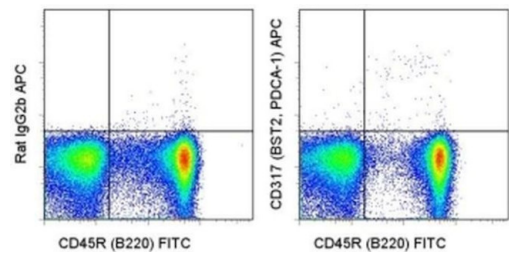
**Applications Reported:** This eBio927 antibody has been reported for use in flow cytometric analysis.

**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 0.25 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 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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD317 (BST2, PDCA-1) Monoclonal Antibody (eBio927), APC, eBioscience™



**CD317 (BST2, PDCA-1) Antibody (17-3172-82) in Flow**  
Staining of SJL splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.125 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.125 µg of Anti-Mouse CD317 (BST2, PDCA-1) APC (right). Total viable cells were used for analysis.

11 References

Flow Cytometry (11)

<p><b>Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics</b></p> <p><b>Inhibition of the BMP Signaling Pathway Ameliorated Established Clinical Symptoms of Experimental Autoimmune Encephalomyelitis.</b></p> <p>"17-3172-82 was used in Flow Cytometry to suggest a role for BMPs in early immune events that take place in myelin oligodendrocyte glycoprotein (MOG)-induced EAE."</p> <p>Authors: Eixarch H,Calvo-Barreiro L,Costa C,Reverter-Vives G,Castillo M,Gil V,Del Río JA,Montalban X,Espejo C</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Mouse</p>
<p><b>Cells</b></p> <p><b>A Commercial Probiotic Induces Tolerogenic and Reduces Pathogenic Responses in Experimental Autoimmune Encephalomyelitis.</b></p> <p>"17-3172 was used in Flow cytometry/Cell sorting to investigate the therapeutic effect of two commercial multispecies probiotics-Lactibiane iki and Vivomixx-on the clinical outcome of established experimental autoimmune encephalomyelitis (EAE)."</p> <p>Authors: Calvo-Barreiro L,Eixarch H,Ponce-Alonso M,Castillo M,Lebrón-Galán R,Mestre L,Guaza C,Clemente D,Del Campo R,Montalban X,Espejo C</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Mouse</p>

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