CD317 (BST2, PDCA-1) Monoclonal Antibody (eBio927), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio927
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2573440

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

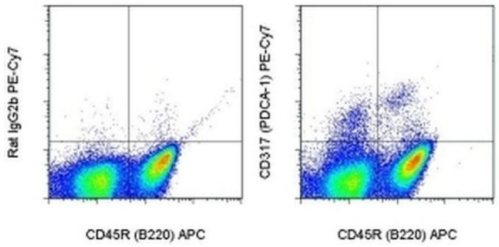
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD317 (BST2, PDCA-1) Monoclonal Antibody (eBio927), PE-Cyanine7, eBioscience™



CD317 (BST2, PDCA-1) Antibody (25-3172-82) in Flow
Staining of SJL splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.125 µg of Rat IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4031-82) (left) or 0.125 µg of Anti-Mouse CD317 (BST2, PDCA-1) PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

5 References

Flow Cytometry (5)

Journal of immunology research

pDC Activation by TLR7/8 Ligand CL097 Compared to TLR7 Ligand IMQ or TLR9 Ligand CpG.

"25-3172-82 was used in Flow cytometry/Cell sorting to aid in the development of a new strategy for future tumor immunotherapy."

Authors: Wu J,Li S,Li T,Lv X,Zhang M,Zang G,Qi C,Liu YJ,Xu L,Chen J

Year
2019

Species
Mouse

Stem cell research & therapy

Circulating healing (CH) cells expressing BST2 are functionally activated by the injury-regulated systemic factor HGFA.

"25-3172 was used in Flow cytometry/Cell sorting to show that bone marrow stromal cell antigen 2 allows the isolation of a population of circulating progenitors, the circulating healing cells, characterized by a distinctive core signature."

Authors: Lo Sicco C,Reverberi D,Villa F,Pfeffer U,Quarto R,Cancedda R,Tasso R

Year
2018

Species
Mouse

View more Flow references on thermofisher.com

More applications with references on thermofisher.com