

# Product Data Sheet

## Biotin anti-mouse CD317 (BST2, PDCA-1)

**Catalog # / Size:** 127005 / 25 µg  
127006 / 100 µg

**Clone:** 927

**Isotype:** Rat IgG2b, κ

**Immunogen:** Mouse plasmacytoid dendritic cells (DCs)

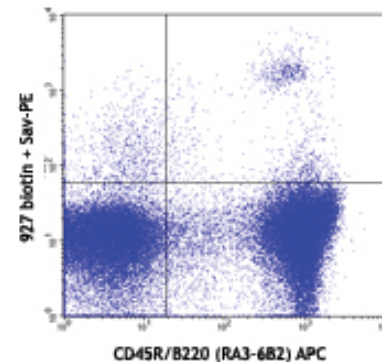
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 splenocytes stained with CD45R/B220 (RA3-6B2) APC and biotinylated 927, followed by Sav-PE

## Applications:

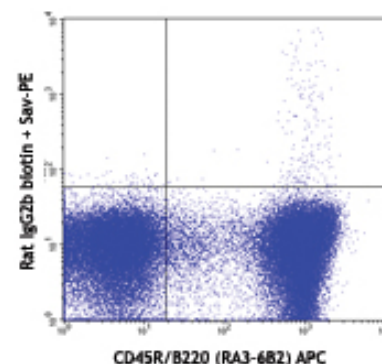
**Applications:** FC - Quality tested  
IF - Reported in the literature

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunofluorescence microscopy, functional assay<sup>2</sup>, and depletion<sup>3,4</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays.

**Application References:**

1. Blasius AL, *et al.* 2006. *J. Immunol.* 177:3260.
2. Schliemann C, *et al.* 2010. *Blood* 115:736. (FA, IF)
3. Rajagopal D, *et al.* 2010. *Blood* 115:1949. (Depletion)
4. Moniz RJ, *et al.* 2010. *FEMS Immunol. Med. Microbiol.* 58:397. (Depletion)



C57BL/6 splenocytes stained with CD45R/B220 (RA3-6B2) APC and biotinylated rat IgG2b isotype control, followed by Sav-PE

**Description:** CD317, known as BST2, tetherin, HM1.2 antigen, bone marrow stromal antigen 2, or PDCA-1, is type II transmembrane glycoprotein with a molecular mass of 29-33 kD. It is predominantly expressed on Type I IFN-producing cells (IPCs) in naive mice, but is up-regulated on most cell types following stimulation with type I IFNs and IFN-gamma. It is highly expressed on terminally differentiated normal plasmacytoid dendritic cells and some tumor cells, such as multiple myeloma, renal cell carcinoma, and melanoma cells. BST2 is a recently identified, IFN-induced cellular response factor that blocks release of HIV-1 and other retroviruses from infected cells. BST2 has been found to be the natural ligand of ILT7 in human model.

**Antigen References:**

1. Douglas JL, *et al.* 2009. *J Virol.* 83(16):7931
2. Cao W *et al.* 2009. *J. Exp. Med.* 206(7):1603
3. Neil SJ, *et al.* 2008. *Nature* 451:425

### Related Products:

**Product**  
 Biotin Rat IgG2b, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)  
 TruStain fcX™ (anti-mouse CD16/32)

**Clone**  
 RTK4530

93

**Application**  
 FC, ICFC  
 FC, ICC, ICFC  
 FC, ICFC  
 FC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.