

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

**Catalog # / Size:** 127009 / 25 µg  
127010 / 100 µg

**Clone:** 927

**Isotype:** Rat IgG2b, κ

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

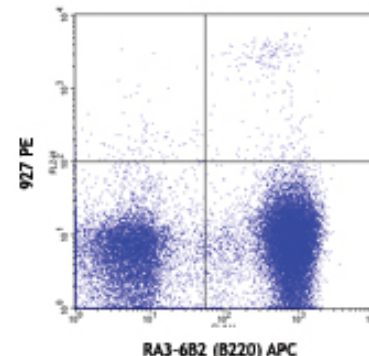
**Reactivity:** Mouse

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

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

**Concentration:** 0.2 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 RA3-6B2 (B220) APC and 927 PE

## Applications:

**Applications:** FC - Quality tested

**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:**

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

**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 naïve 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:**

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

Related Products:	Product	Clone	Application
	PE Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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