

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

**Catalog # / Size:** 127102 / 100 µg

**Clone:** 129C1

**Isotype:** Rat IgG2b, κ

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

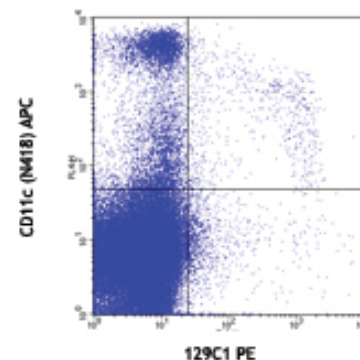
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

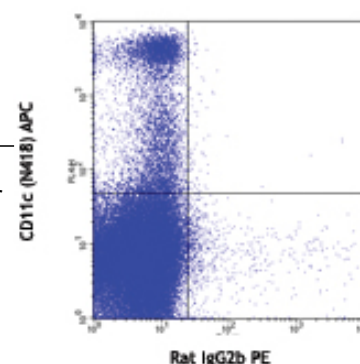
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



SJL mouse splenocytes double stained with 129C1 PE and CD11c (N418) APC



SJL mouse splenocytes double stained with rat IgG2b isotype control PE and CD11c (N418) APC

## Applications:

**Applications:** FC - *Quality tested*  
 IP - *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 ≤ 1.0 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Blasius AL, *et al.* 2006. *J. Immunol.* 177:3260  
 2. Cocka LJ, *et al.* 2012. *PLoS Pathog.* 8:e1002931. PubMed.

**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 as 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**  
 Purified Rat IgG2b, κ Isotype Ctrl  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 RTK4530

### Application

FC, ICC, ICFC, IF, IHC, IP, WB  
 FC, ICC, ICFC  
 FC, ICFC



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