

Product Data Sheet

FITC anti-mouse CD317 (BST2, PDCA-1)

Catalog # / Size: 127007 / 25 µg
127008 / 100 µg

Clone: 927

Isotype: Rat IgG2b, κ

Immunogen: Mouse plasmacytoid dendritic cells (DCs)

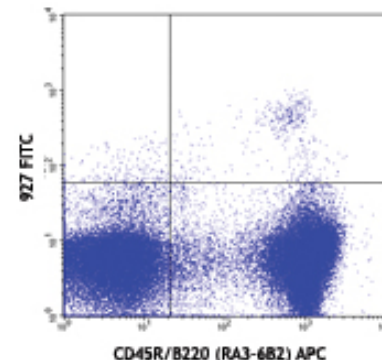
Reactivity: Mouse

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

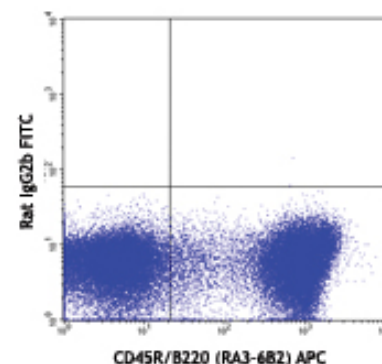
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

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 927 FITC and CD45R/B220 (RA3-6B2) APC



C57BL/6 splenocytes stained with rat IgG2b FITC isotype control and CD45R/B220 (RA3-6B2) APC

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 assay², and depletion^{3,4}. 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)

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	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC



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