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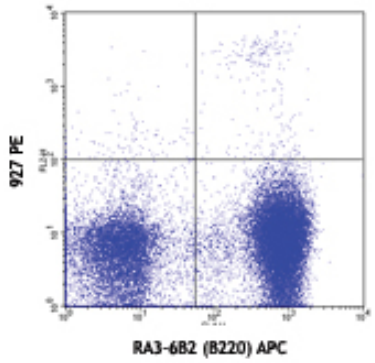
Product Data Sheet

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

Catalog # / Size: 127002 / 100 µg
Clone: 927
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.



C57BL/6 splenocytes stained with RA3-6B2 (B220) APC and 927 PE

Applications:

Applications: FC - *Quality tested*
IF, 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 10^6 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[2], 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 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:
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
Purified Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICC, ICFC, IF, IHC, IP, WB
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 455-9588 Fax: (858) 455-9587