

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

Catalog # / Size: 127004 / 500 µg

Clone: 927

Isotype: Rat IgG2b, κ

Immunogen: Mouse plasmacytoid dendritic cells (DCs)

Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: FC - *Quality tested*
IF, IP, FA, Depletion - *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 10⁶ cells in 100 µl volume or 100 µl of whole blood. 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:

- 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 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:

- 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
LEAF™ Purified Rat IgG2b, κ Isotype Ctrl

Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK4530

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



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