

# CD317 (BST2, PDCA-1) Monoclonal Antibody (26F8), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	26F8
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596640

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	4 Publications

## Product Specific Information

**Description:** This 26F8 monoclonal antibody reacts with human CD317 (also known as BST2 and tetherin). CD317 is a 30-36-kDa type II transmembrane protein expressed on B cells and bone marrow stromal cells. Although reports have indicated that CD317 mRNA is detectable in activated T cells, protein expression in freshly isolated primary T cells and macrophages is undetectable. Moreover, certain T cell lines, such as Jurkat, do not express detectable levels of CD317 protein. However, CD317 expression can be induced in many cell types (e.g., T and B cells, 293T, and HeLa) by IFNalpha treatment. CD317 has been associated with pre-B cell growth and the terminal differentiation of plasma B cells. More recently, this molecule has been reported to prevent HIV-1 virion release from the surface of infected cells, leading to reuptake and degradation of the virus. This activity is inhibited by the HIV-1 accessory protein Vpu. CD317 has been identified as the ligand for the ILT7 receptor.

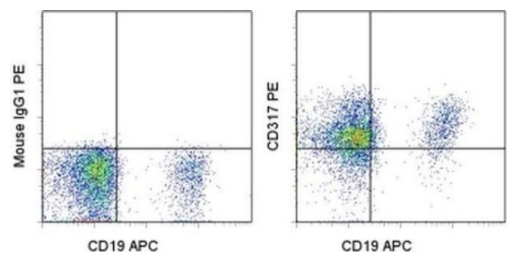
**Applications Reported:** This 26F8 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 26F8 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD317 (BST2, PDCA-1) Monoclonal Antibody (26F8), PE, eBioscience™



**CD317 (BST2, PDCA-1) Antibody (12-3179-42) in Flow**  
Normal human peripheral blood cells were treated with human IFN alpha 2 and then stained with Anti-Human CD19 (HIB19) APC (Product # 17-0199-42) and Mouse IgG1, K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human CD317 (BST2, PDCA-1) PE (right). Cells in the lymphocyte gate were used for analysis.

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4 References

Flow Cytometry (4)

<p><b>Virology</b></p> <p><b>Japanese encephalitis virus counteracts BST2 restriction via its envelope protein E.</b></p> <p>"Published figure using CD317 (BST2, PDCA-1) monoclonal antibody (Product # 12-3179-42) in Flow Cytometry"</p> <p>Authors: Li M,Wang P,Zheng Z,Hu K,Zhang M,Guan X,Fu M,Zhang D,Wang W,Xiao G,Hu Q,Liu Y</p>	<p><b>Year</b></p> <p>2017</p>
<p><b>International journal of clinical and experimental pathology</b></p> <p><b>CD317 is over-expressed in B-cell chronic lymphocytic leukemia, but not B-cell acute lymphoblastic leukemia.</b></p> <p>"12-3179 was used in Flow cytometry/Cell sorting to suggest the prognostic significance of CD317 for B-cell chronic lymphocytic leukemia."</p> <p>Authors: Gong S,Osei ES,Kaplan D,Chen YH,Meyerson H</p>	<p><b>Year</b></p> <p>2016</p> <p><b>Species</b></p> <p>Human</p>

[View more Flow references on thermofisher.cn](#)

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