

Brilliant Violet 421™ beta test results



High sensitivity for mouse CD127

11-0004-00

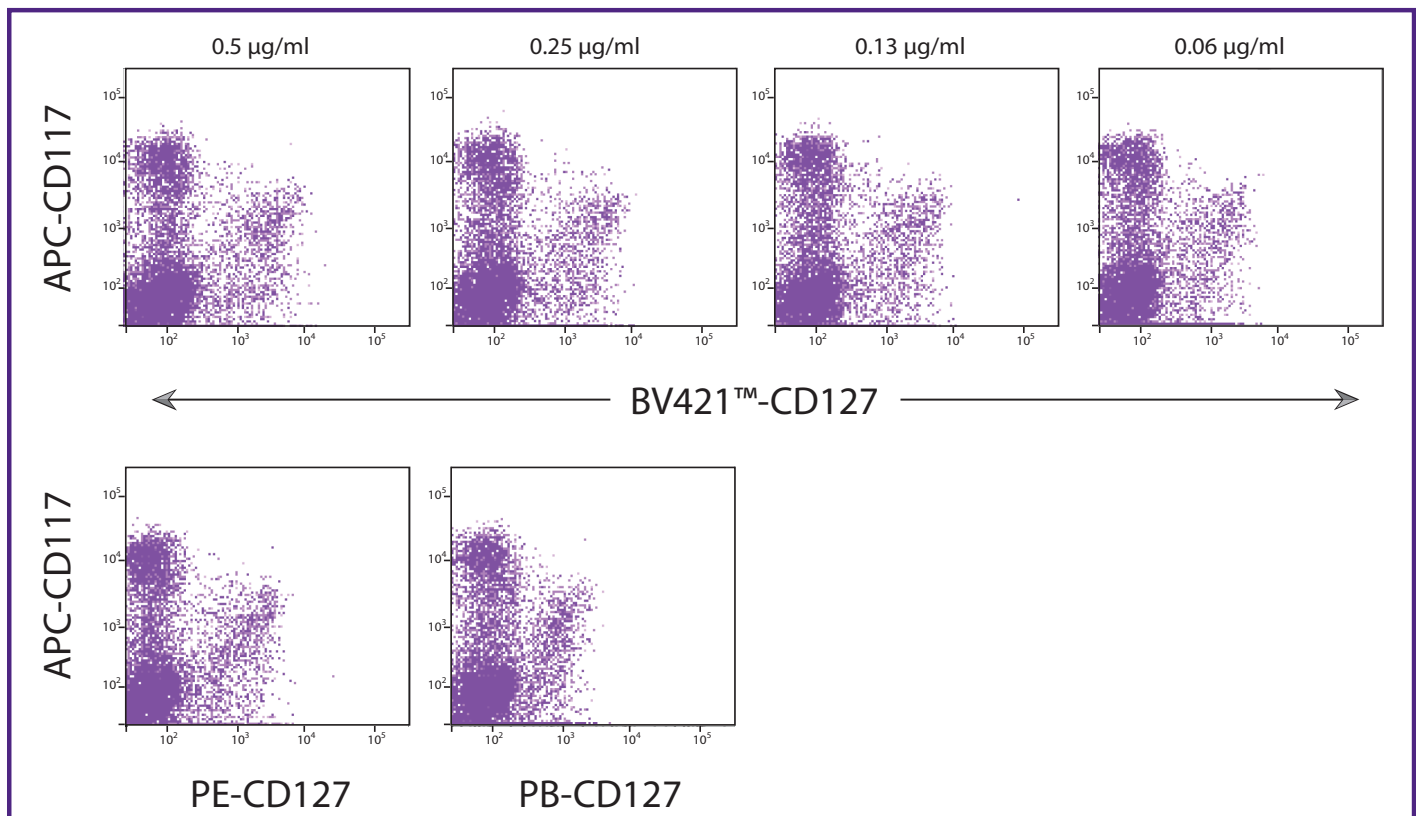
Data Courtesy of Renee De Pooter and David Leclerc, University of Chicago.

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Cat. No.	Description	Clone
135023	Brilliant Violet 421™ anti-mouse CD127 (IL-7R α)	A7R34



Brilliant Sensitivity

The high intensity brightness of Brilliant Violet 421™ enables visualization of weakly expressed antigens. It can also allow researchers to use higher dilutions of antibody to obtain the same data, resulting in less antibody per test. Here, researchers were able to use dilutions of Brilliant Violet 421™ anti-mouse CD127 down to 1:800 dilution (0.06 µg/mL) to identify

precursor cells from bone marrow in a 6-color panel. At all dilutions tested, the BV421™ outperformed the Pacific Blue™ equivalent used at much higher concentrations (10 µg/mL). The BV421™ results were comparable to those of the PE conjugate. The total amount of antibody was critical in this sorting experiment because the desired population was less than 2% of total stained cells, and the starting amount was 500 million bone marrow cells.

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