

Brilliant Violet 570™ beta test results



6-Color Treg Identification

11-0010-00

Data provided by Eva Tolosa, University Medical Center Hamburg-Eppendorf.

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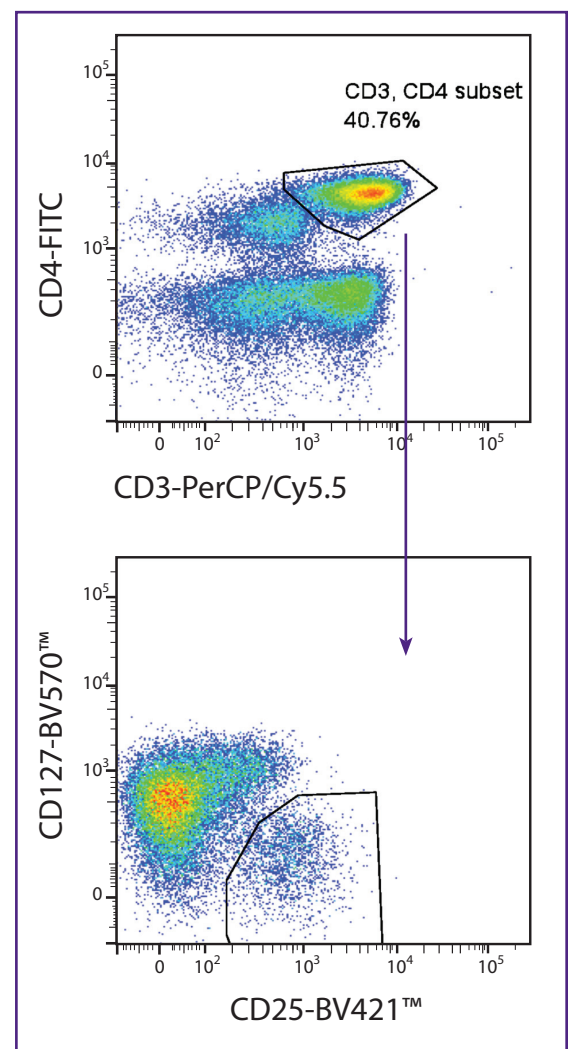
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Cat. No.	Description	Clone
351307	Brilliant Violet 570™ anti-human CD127	A019D5

Brilliant Clarity

Flow cytometry is an effective tool for the identification of Treg (Regulatory T) cells. While FOXP3 is the definitive marker for Tregs, it is an intracellular target that requires fixation and permeabilization of cells for antibody labeling, which precludes researchers from isolating and performing further functional studies on those cells. CD127 and CD25 have been identified as useful cell surface markers for the classification of Tregs without the use of a FOXP3 antibody, characterized as CD127^{dim}/CD25⁺/CD4⁺ cells. Further characterization of Tregs requires multicolor flow cytometry, potentially with many different labeled antibodies, increasing the need for more fluorophore options. Here, CD127-BV570™ was successfully used for PBMC staining with a 6-color panel, including CD25-BV421™, to identify Tregs based on cell surface staining. Other functional Treg markers, CD39 and CD73, which are cell surface ecto-nucleotidase enzymes that contribute to the suppressive capacity of Tregs, were also characterized in this panel. (Note: Filter changes and instrument re-configuration may be necessary.)

Fluorophore	Specificity
BV421™	CD25
BV570™	CD127
FITC	CD4
PerCP/Cy5.5	CD3
PE/Cy7	CD39
APC	CD73



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