

Brilliant Violet 570™ beta test results



9-Color Immunoprofiling of Breast Cancer Tissue

11-0009-01

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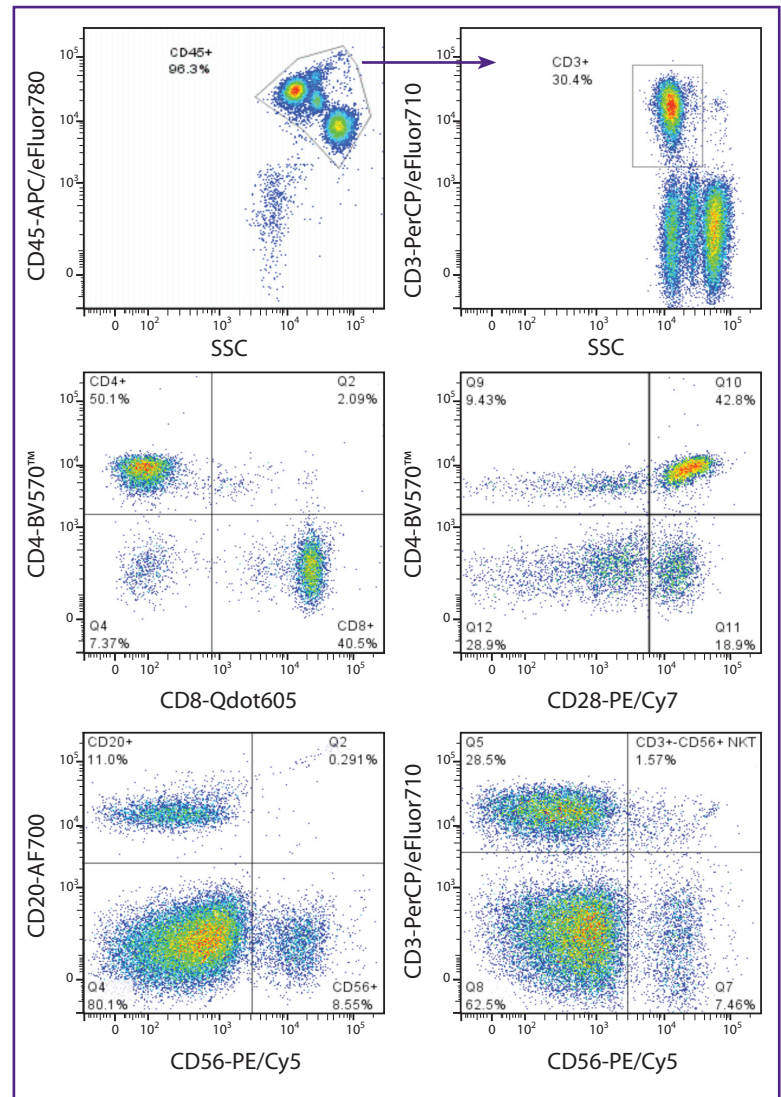
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Cat. No.	Description	Clone
300533	Brilliant Violet 570™ anti-human CD4	RPA-T4

Brilliant Multicolor

A common application in cancer immunology involves profiling primary tumor specimens for tumor infiltrating leukocytes and their proliferation/activation states. Often these sorts of profiling applications require many concurrent panels to cover phenotypic markers for granulocytes, T cells, B cells, NKT cells, myeloid and dendritic cells. Here, a breast cancer tissue specimen was assayed for T, B and NK cells in a single 9-color panel. Cells were gated on SSC vs. CD45 and then CD3⁺ populations. Brilliant Violet 570™ is an additional marker excited by the violet laser that is brighter than its spectral equivalent Pacific Orange™ and can be used in the same panel as BD Horizon™ V500 or Live/Dead Fixable Aqua and QDot® 605 in a multicolor panel. In this application, CD4-BV570™ is used in place of CD4-QDot® 655. The below data demonstrates the utility of CD4-BV570™, as a drop-in replacement, in a 9-color panel. (Note: Filter changes and instrument re-configuration may be necessary.)

Fluorophore	Specificity
APC/eFluor®780	CD45
PerCP/eFluor®710	CD3e
eFluor®450	HLA-DR
BV570™	CD4
Qdot®605	CD8a
PE/Cy7	CD28
FITC	NKG2D
PE/Cy5	CD56
Alexa Fluor® 700	CD20
Aqua	Live/Dead



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