Brilliant Violet 570™ beta test results

Intracellular Staining with anti-human IFN-γ

11-0008-00

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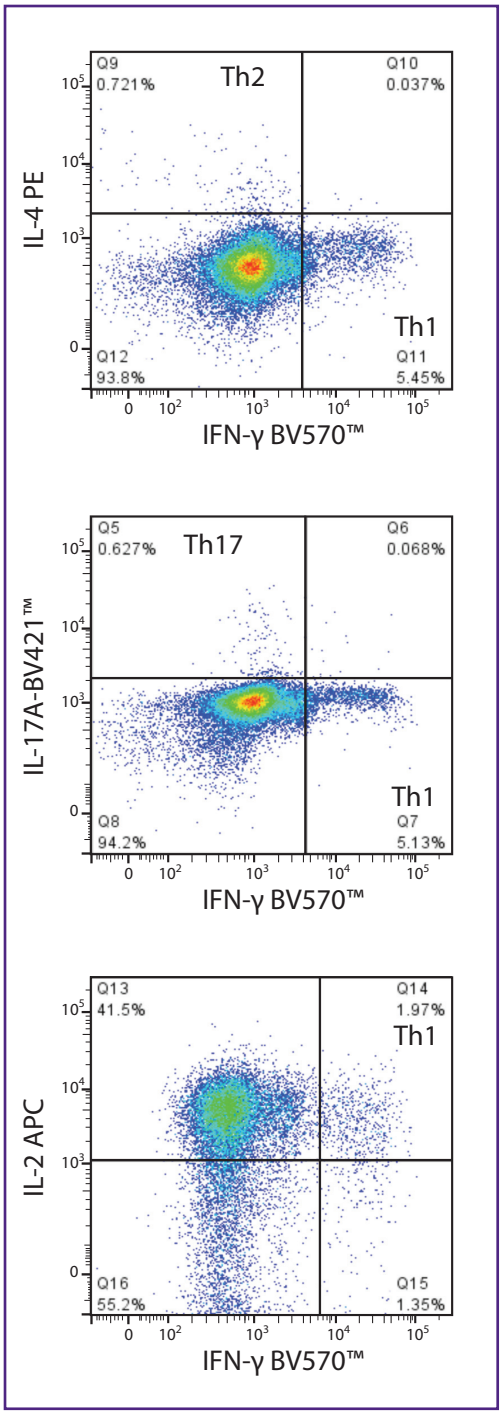
Cat. No.	Description	Clone
502533	Brilliant Violet 570™ anti-human IFN-γ	4S.B3

Brilliant Intracellular Staining

Intracellular staining of cytokines can be an excellent tool for identifying single cell polarization towards T helper phenotypes. With the recent discovery of many different T helper types, including Th1, Th2, Th17, Tfh, Th9, Th22, and IL-10 producing regulatory T cells, it is critical to delineate T cells using multicolor intracellular flow cytometry. Furthermore, functional characterization of other cell types, such as CD8 cells, requires the detection of multiple intracellular cytokines. Here, we demonstrate that Brilliant Violet 570™ is fully compatible with other anti-cytokine antibodies, including IL-17A Brilliant Violet 421™, in a 10-color panel using BioLegend's standard Fixation and Permeabilization buffers. The BV570™ antibody is able to clearly resolve the IFN-γ-expressing cells (Th1) from the Th2 and Th17 cells in a mixed human peripheral blood lymphocyte population, after stimulation with PMA/ionomycin for six hours. Positive gates were determined from FMO and unstimulated controls. The full panel and instrument configuration are shown below: (Note: Filter changes and instrument re-configuration may be necessary.)

Fluorophore/PMT	Specificity	Laser	Voltage	Bandpass	Dichroic
APC	IL-2	633	459	670/30	
Alexa Fluor® 700	CD3	633	385	730/45	690LP
BV421™	IL-17A	405	368	450/50	
Aqua	Live/Dead	405	429	525/50	505LP
BV570™	IFN-γ	405	486	585/42	556LP
Qdot®605	CD8	405	409	605/40	595LP
Alexa Fluor® 488	CD45RO	488	489	530/30	505LP
PE	IL-4	561	419	582/15	
PE/Cy5	CD4	561	471	660/20	635LP
PE/Cy7	CD45RA	561	524	780/60	750LP



Learn more at: **biolegend.com/brilliantviolet**