

# Brilliant Violet 650™ beta test results

## Treg Panel using Brilliant Violet™ fluorophores

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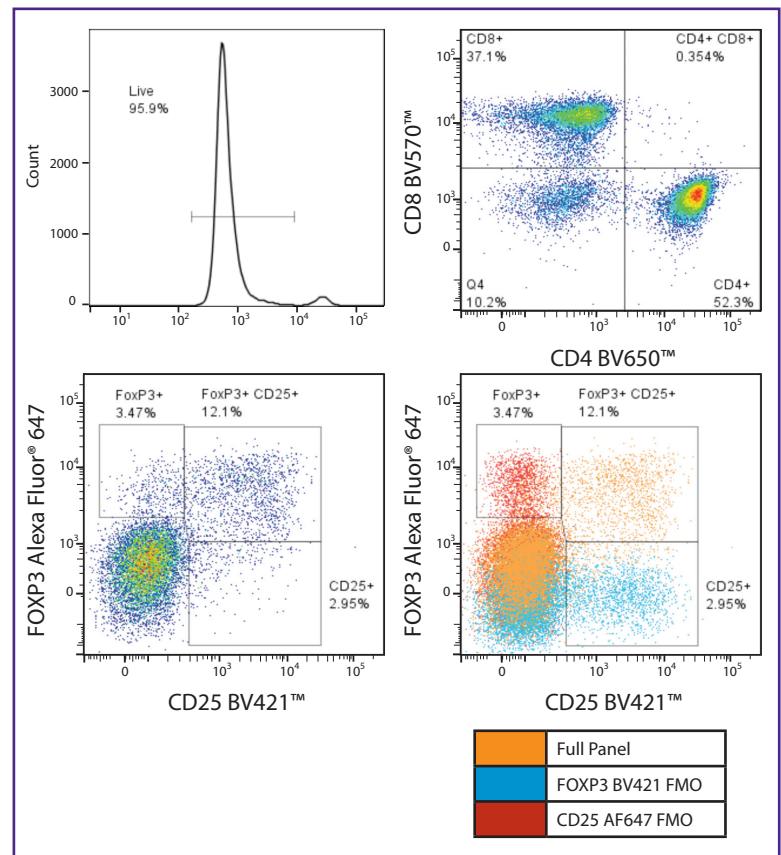
Cat. No.	Description	Clone
300535	Brilliant Violet 650™ anti-human CD4	RPA-T4
302629	Brilliant Violet 421™ anti-human CD25	BC96
301037	Brilliant Violet 570™ anti-human CD8a	RPA-T8

### Brilliant Family

Definitive characterization of Treg cells typically requires a combination of cell surface and intracellular staining. Directly labeled antibodies against CD3, CD4, and CD25 are commonly used for cell surface markers on Tregs, while FOXP3 is a specific intracellular marker. Here, we demonstrate the utility of Brilliant Violet™ fluorophores, BV421™, BV570™, and BV650™, in a Treg staining panel. In the below analysis, live cells are positively gated and then analyzed for CD8 vs. CD4 expression. CD4<sup>+</sup> cells are then analyzed for FOXP3 vs. CD25. Fluorescence Minus One (FMO) data reveals the specificity of the FOXP3<sup>+</sup>CD25<sup>+</sup> cells. Being able to utilize such an expanded set of fluorophores greatly expands the options for more complex analysis with 9 or more colors, allowing for more in-depth studies on the characteristics and functions of Tregs.

### Treg Panel

Fluorophore	Specificity
PE/Cy7	CD3
BV570™	CD8
BV421™	CD25
BV650™	CD4
Alexa Fluor® 647	FOXP3
Green	Live/Dead



Brilliant Violet™, BV421™, BV570™, and BV650™ are trademarks of Sirigen Group Ltd. Alexa Fluor® is a trademark of Molecular Probes, Inc.

Learn more at: [biolegend.com/brilliantviolet](http://biolegend.com/brilliantviolet)

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