

Brilliant Ultra Violet and Brilliant Violet polymer dyes conjugated to eBioscience antibodies

Expand your flow cytometry panel with new polymer dyes

Invitrogen™ Brilliant Ultra Violet™ and Brilliant Violet™ dyes are built on a polymer technology and are compatible with both spectral as well as traditional flow cytometry.

Brilliant Ultra Violet and Brilliant Violet dyes are newer additions to the large family of conjugated antibodies for flow cytometry by Thermo Fisher Scientific.

By offering high-quality flow cytometry products to support your research, we'll be your trusted partner every step of the way.

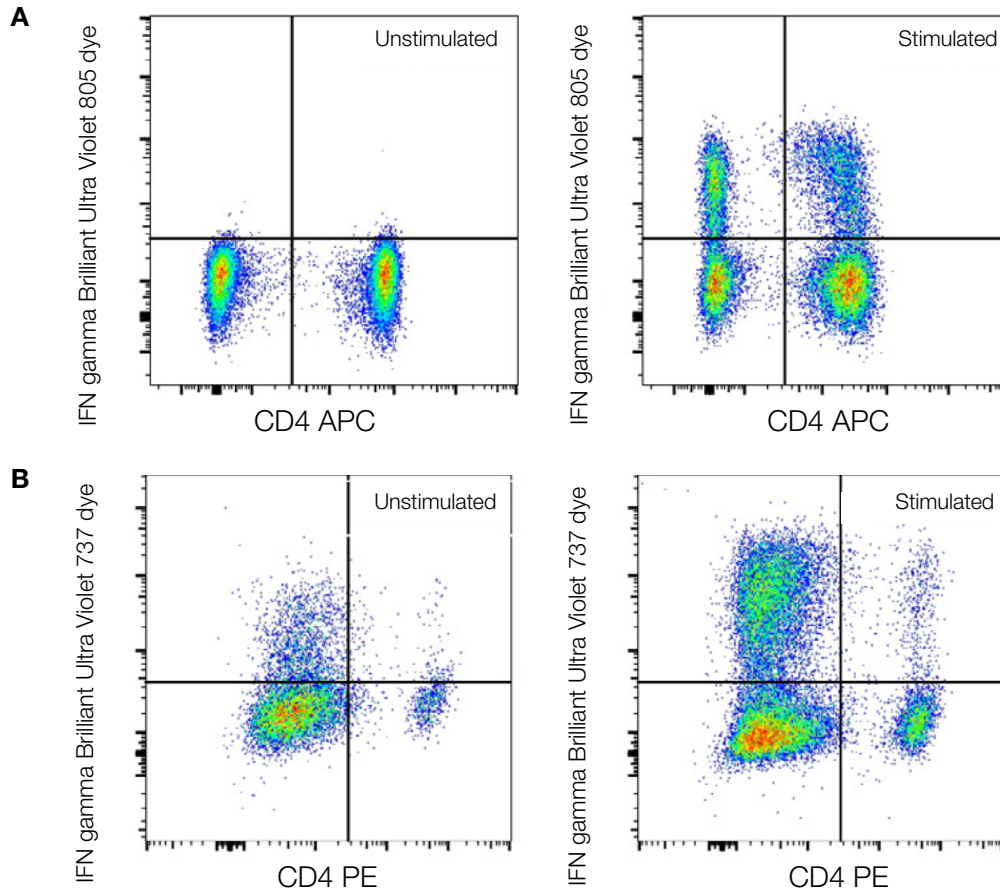
Brilliant Ultra Violet and Brilliant Violet polymer dyes offer:

- **Versatility**—enable full use of UV and violet detector channels
- **Choice**—come conjugated to a wide portfolio of antibodies for both surface and intracellular flow cytometry
- **Easier experiments**—provide optimum brightness and stability with fewer compensation and compatibility issues
- **Stability**—are compatible with all fixation buffers and reagents for maximum panel flexibility
- **Spectral compatibility**—work with both spectral and traditional flow cytometry instruments

Selected Brilliant Ultra Violet and Brilliant Violet dyes

Dye	Initial brightness (1–5, where 5 is brightest, derived from stain index data)	Laser (nm)	Excitation max (nm)	Emission max (nm)	Suggested bandpass filter
Brilliant Violet dyes					
Brilliant Violet 421	4	Violet (405 nm)	407	423	450/50
Brilliant Violet 480	3	Violet (405 nm)	440	479	525/40
Brilliant Violet 650	2	Violet (405 nm)	407	649	660/20, 630 LP
Brilliant Violet 711	4	Violet (405 nm)	407	713	710/50, 690 LP
Brilliant Violet 786	3	Violet (405 nm)	407	786	780/60, 750 LP
Brilliant Ultra Violet dyes					
Brilliant Ultra Violet 395	3	Ultraviolet (355 nm)	350	395	379/28
Brilliant Ultra Violet 496	2	Ultraviolet (355 nm)	350	496	515/30, 450 LP
Brilliant Ultra Violet 563	4	Ultraviolet (355 nm)	350	564	Instruments with yellow-green (561 nm) laser: 585/15, 535 LP; without yellow-green laser: 560/40, 535 LP
Brilliant Ultra Violet 615	3	Ultraviolet (355 nm)	350	616	610/20, 595 LP
Brilliant Ultra Violet 661	4	Ultraviolet (355 nm)	350	660	670/25, 630 LP
Brilliant Ultra Violet 737	4	Ultraviolet (355 nm)	350	737	740/35
Brilliant Ultra Violet 805	3	Ultraviolet (355 nm)	350	805	820/60 or 780/60

Bright intracellular staining



Intracellular staining. (A) Normal human peripheral blood cells were unstimulated (left) or stimulated for 5 hours with the Invitrogen™ eBioscience™ Cell Stimulation Cocktail (Cat. No. 00-4975-93) plus protein transport inhibitors (right). Cells were then stained intracellularly, using the Invitrogen™ eBioscience™ Intracellular Fixation & Permeabilization Buffer Set (Cat. No. 88-8824-00) and protocol, with Invitrogen™ eBioscience™ CD4 Monoclonal Antibody, APC (Cat. No. 17-0047-42), and Invitrogen™ IFN gamma Monoclonal Antibody, Brilliant Ultra Violet™ 805. Viable cells in the lymphocyte gate were used for analysis, as determined by Invitrogen™ LIVE/DEAD™ Fixable Violet Dead Cell Stain Kit (Cat. No. L34964). (B) C57BL/6 mouse splenocytes were stimulated for 72 hours with Invitrogen™ eBioscience™ CD3e (Cat. No. 16-0031-85) and CD28 (Cat. No. 16-0281-86) Monoclonal Antibodies, Functional Grade. Cells were restimulated for 5 hours with Invitrogen™ eBioscience™ Brefeldin A Solution (Cat. No. 00-4506-51) (left) or restimulated for 5 hours with Cell Stimulation Cocktail and Brefeldin A Solution (right). Cells were then stained intracellularly, using the Intracellular Fixation & Permeabilization Buffer Set and protocol, with Invitrogen™ eBioscience™ CD4 Monoclonal Antibody, PE (Cat. No. 12-0042-82) and 0.5 µg of Invitrogen™ IFN gamma Monoclonal Antibody, Brilliant Ultra Violet™ 737. Viable cells in the lymphocyte gate were used for analysis, as determined by the LIVE/DEAD Fixable Violet Dead Cell Stain Kit.

Find the free, expert help you need to build your high-parameter panels for both spectral and traditional flow cytometers using our intuitive Invitrogen™ Flow Cytometry Panel Builder at thermofisher.com/panelbuilder

Expand your flow panels at thermofisher.com/brilliantdyes

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