BD Horizon Brilliant™ Ultraviolet 615 Reagents

A fluorochrome designed to provide flexibility in panel design

Features

Excellent resolution of dim populations

Expanding multi-color options for 355 nm UV laser

Overall low impact on the resolution of most other fluorochromes

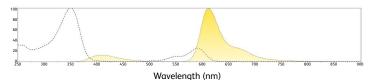


Figure 1. Excitation and emission profile for BD Horizon Brilliant™ BUV615 tandem dye

BUV615 Specification						
Ex _{max}	Em _{max}	Filter	Relative Brightness			
350 nm	616 nm	610/20	Bright			

BD Horizon Brilliant™ Ultraviolet 615 (BUV615) is a tandem dye excited by the ultraviolet (355 nm) laser and has an emission maximum of 616 nm. BUV615 is a seventh dye choice for the UV laser, which allows an additional color to be considered for panel design, as it works well in combination with many other fluorochromes in a multicolor panel. The BUV615 dye was developed exclusively by BD Biosciences using polymer technology to provide stable, high quality reagents that are bright with minimal spillover.

BUV615 with an excitation maximum at 350 nm is a tandem fluorochrome that combines BD Horizon Brilliant™ Ultraviolet 395 (BUV395) and an acceptor dye with an emission maximum at 616 nm. BUV615 is designed for instruments equipped with an ultraviolet (355 nm) laser and a 610/20 filter.



BUV615 resolves antigens expressed at all resolution levels (Figure 2 and Figure 3). Spillover Spread Matrix (SSM) analysis reveals that BUV615 minimally impacts the resolution of most other fluorochromes. Furthermore, the resolution of BUV615 is minimally impacted by other fluorochromes (Figure 4).

Figure 2

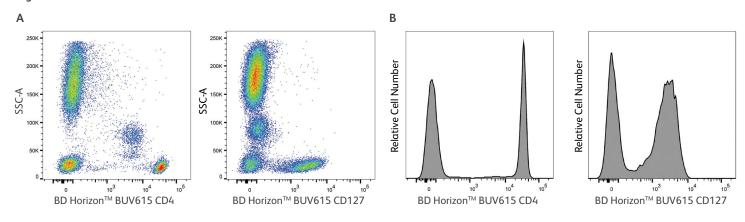


Figure 2. Staining of human lysed whole blood using BD Horizon BUV615 reagents

A. Human lysed whole blood was stained with BD Horizon BUV615 CD4 (left, clone SK3) or CD127 (right, clone H1L-7R-M21). B. Fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact lymphocytes.

Figure 3

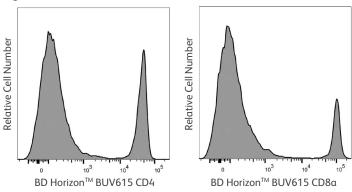
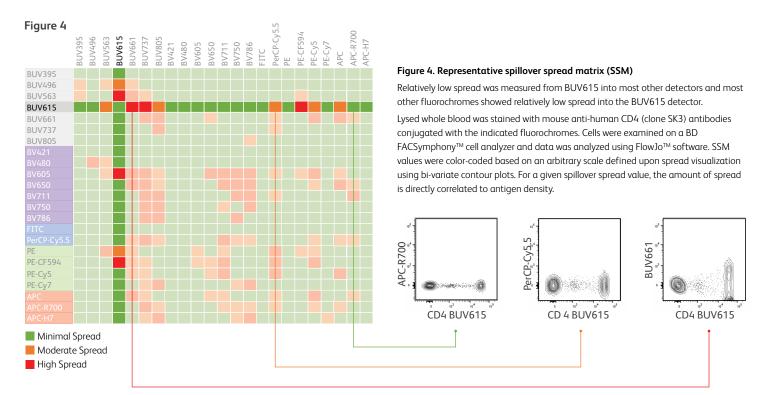


Figure 3. Staining of mouse splenocytes using BD Horizon BUV615 reagents
Balb/c splenocytes stained with BD Horizon BUV615 CD4 (left, clone GK1.5) or
mCD8a (right, clone 53-6.7). Fluorescence histograms were derived from gated events
with the forward and side light-scattering characteristics of intact leukocytes.



A selection of BD Horizon BUV615 research reagents*

To view α complete list of products, visit **bdbiosciences.com**.

For custom conjugations or bulk orders, email BDB_Custom_Orders@bd.com or visit bdbiosciences.com/en-us/custom-reagents.

Ordering information								
Reagent Specificity	Reactivity	Clone	Isotype	Size	Catalog Number			
CD3	Human	LICUT1	Mouse IgG ₁ , κ	25 Tests	612993			
		UCHT1		100 Tests	612992			
CD4	Human	CNO	Mouse IgG ₁ , κ	25 Tests	612988			
		SK3		100 Tests	612987			
CD8	Human	CV1	Mayon InC.	25 Tests	612995			
		SK1	Mouse IgG ₁ , κ	100 Tests	612994			
CD19	Human	C12FC1	Mouse IgG ₁ , κ	25 Tests	612990			
		SJ25C1		100 Tests	612989			
CD25 (IL- 2Rα)	Human	2.4.2	Mouse IgG ₁ , κ	25 Tests	612997			
		2A3		100 Tests	612996			
CD56 (NCAM1)	Human	NCAM16.2	Mouse IgG _{2b} , κ	25 Tests	613002			
		NCAWITO.2		100 Tests	613001			
CD194 (CCR4)	Human	1G1	Mouse IgG ₁ , κ	100 Tests	613000			
CD129 (PD-1)	Human	EH12.1	Mouse IgG ₁ , κ	100 Tests	612991			
CD4	Mouse	GK1.5	Rat IgG _{2α} , κ	50μg	613006			
CD8a	Mouse	53-6.7	Rat IgG _{2α} , κ	50μg	613004			

^{*} Reagents available in most countries. Ask your BD Representative for more information.

BD OptiBuild™ On-demand Reagents

Hundreds of additional BUV615 antibody combinations will be continuously introduced through the BD OptiBuild $^{\text{\tiny{M}}}$ On-demand reagent program, providing increased flexibility for panel design.

Class 1 Laser Product.
For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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