



# BD Horizon™ Real Fluorochromes

They're just better dyes



## Minimize Cross-laser Spillover. Optimize Panel Resolution.

BD Horizon RealViolet™, RealBlue™, RealYellow™ and RealRed™ Fluorochromes are engineered to help you push the boundaries of multicolor flow cytometry. These advanced fluorochromes minimize cross-laser spillover and enhance panel resolution, enabling high-quality data and more flexible panel design across both conventional and spectral cytometers. Whether you're expanding existing panels or building new ones, BD Horizon™ Real Dyes give you the clarity and control you need to accelerate discovery.

## BD Horizon™ Real Fluorochromes offer:



**Reduced spillover:** Lower cross-laser excitation allows for cleaner emission profiles, which simplifies panel design and unlocks greater flexibility—giving you high-quality panels.



**Excellent resolution of diverse antigen densities:** These dyes range from moderate to very bright, giving you the ability to assign fluorochromes where they fit best.



**Robust intracellular performance:** BD Horizon™ Real Fluorochromes enable analysis of intracellular proteins like cytokines, transcription factors and phosphorylated signaling molecules—providing flexibility in various protocols.



**Lot-to-lot consistency and stability:** These fluorochromes provide lot-to-lot consistency across made-to-stock and BD OptiBuild™ Reagents, with proven photostability under typical lab lighting—so your results stay accurate and reproducible.

# Switch to Cleaner BD Horizon™ Real Dyes

Format	Spectral	Conventional	Resolution	Spillover (1 = low, 4 = high)	Alternative to
<b>Violet Laser</b>					
RV544	✓		●●○○	2	cFluor™ V547
RV828	✓		●●○○	1	Qdot™ 800
<b>Blue Laser</b>					
RB502 (coming soon)	✓	✓	●●●○	1	FITC, Alexa Fluor™ 488, BB515, cFluor™ B515
RB545	✓		●●○○	1	cFluor™ B548
RB575	✓	✓	●●○○	1	PE, StarBright™ Blue 580
RB613	✓	✓	●●●●	2	PE-CF594, PE-Dazzle™ 594, BB630-P2, StarBright™ Blue 615
RB670	✓	✓	●●●●	2	PE-Cy5, BB660-P2, cFluor™ B675, StarBright™ Blue 675
RB705	✓	✓	●●●●	2	PerCP-Cy5.5, PE/Fire™ 700, BB700, cFluor™ B690, StarBright™ Blue 700
RB744	✓	✓	●●●●	1	PE/Fire™ 744, BB755-P, cFluor™ BYG750
RB780	✓	✓	●●●●	1	PE-Cy7, PerCP/Fire™ 780, BB790-P, cFluor™ BYG781
RB824	✓	✓	●●●○	1	PE/Fire™ 810, PerCP/Fire™ 806, StarBright™ Blue 810
<b>Yellow-green Laser</b>					
RY586	✓	✓	●●●●	1	PE, cFluor™ YG584
RY610	✓	✓	●●●○	1	PE-CF594, PE-Dazzle™ 594, cFluor™ BYG610
RY655	✓	✓	●●●●	3	PE-Cy5, PE/Fire™ 640, cFluor™ BYG667, StarBright™ Yellow 665
RY703	✓	✓	●●●●	2	PE-Cy5.5, PE/Fire™ 700, cFluor™ BYG710, StarBright™ Yellow 720
RY743	✓	✓	●●●●	2	PE/Fire™ 744, cFluor™ BYG750
RY775	✓	✓	●●●●	2	PE-Cy7, cFluor™ BYG781, StarBright™ Yellow 800
<b>Red Laser</b>					
RR656 (coming soon)	✓	✓	●●●●	2	APC, Alexa Fluor™ 647, cFluor™ R659, StarBright™ Red 670
RR688	✓		●●●●	1	Alexa Fluor™ 660, cFluor™ R685

Chart contains representative fluorochromes compatible with a five-laser spectral flow cytometer. Table may differ based on instrument configuration and settings. Spillover ranking is based on cross-laser excitation and does not take into account spillover into adjacent or residual detectors. PE and PE tandem dyes are excited by both the blue and yellow-green lasers. Be sure to check your instrument configuration.



Explore fluorochromes at [bdbiosciences.com/real](https://bdbiosciences.com/real)

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