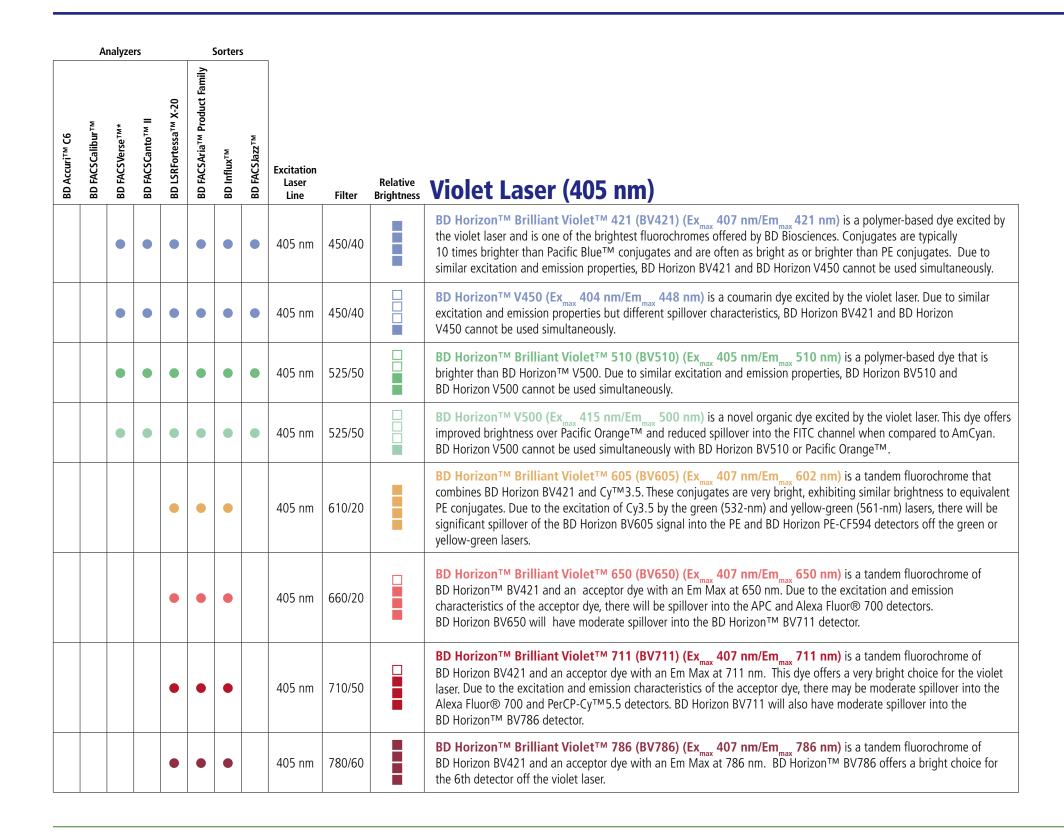
BD Biosciences

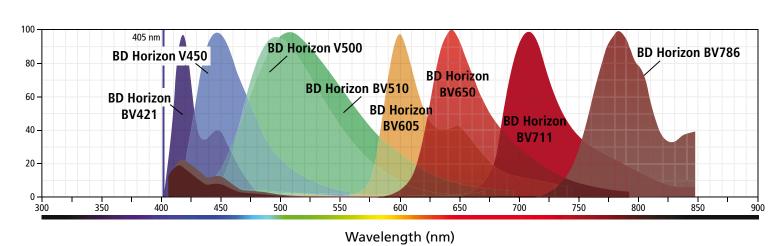
Fluorochrome/Laser Reference Poster

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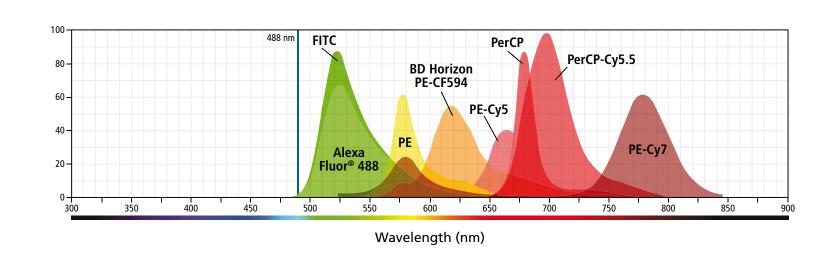
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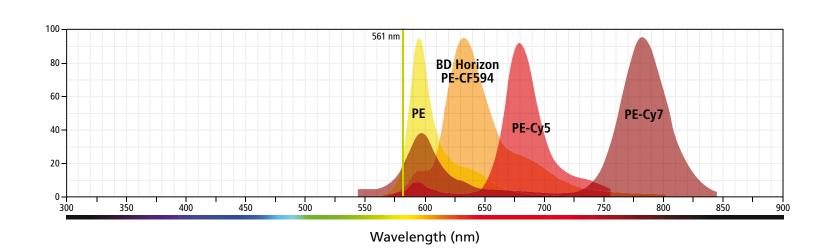
Experience the full potential of multicolor flow cytometry with BD Biosciences flow cytometry instruments, reagents, and services. Visit our website for tools and information related to multicolor panel design including the interactive Fluorescence Spectrum Viewer, Multicolor Antibody Reagents Catalog, Human and Mouse Panels, and more.

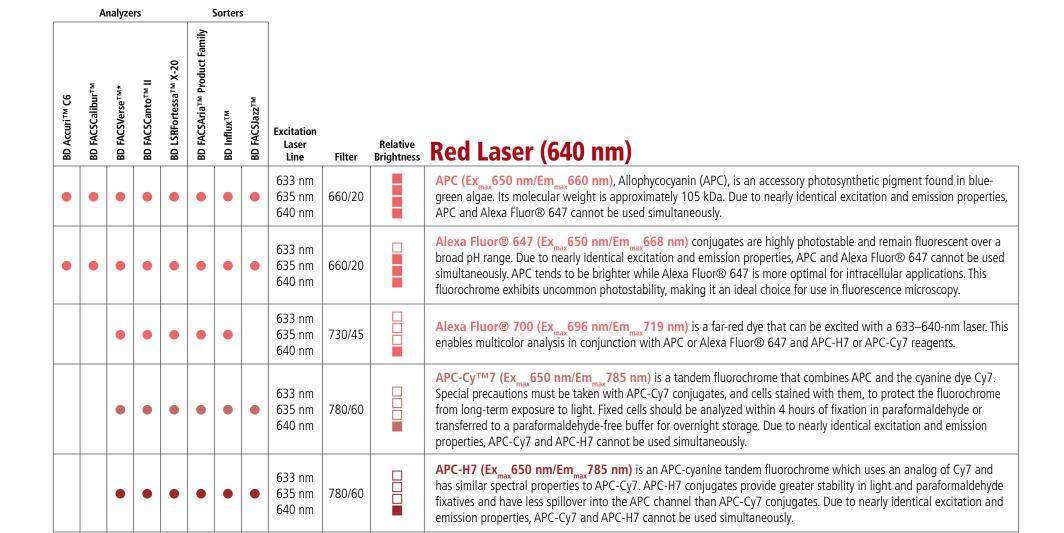


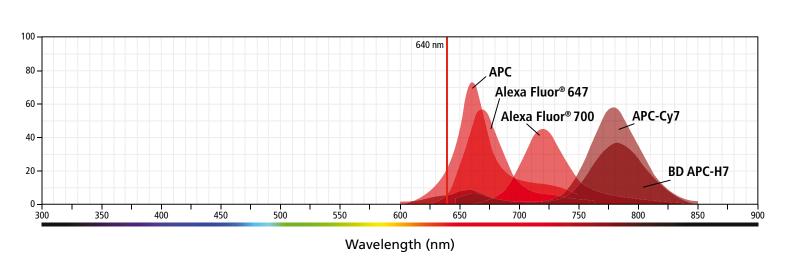


BD Accuri™ C6	BD FACSCalibur™	BD FACSVerse™*	BD FACSCanto™ II	BD LSRFortessa™ X-20	BD FACSAria™ Product Famil	BD Influx™	BD FACSJazz™	Excitation Laser Line	Filter	Relative Brightness	Blue Laser (488 nm) / Yellow-Green Laser (561 nm)
•	•	•	•	•	•	•	•	488 nm	530/30		Alexa Fluor® 488 (Ex _{max} 495 nm/Em _{max} 519 nm) conjugates are highly photostable and remain fluorescent over a broad pH range. Alexa Fluor® 488 tends to be brighter than FITC and more optimal for intracellular applications. Due to nearly identical excitation and emission properties, FITC and Alexa Fluor® 488 cannot be used simultaneously. Alexa Fluor® 488 exhibits extraordinary photostability, which makes it highly suitable for fluorescence microscopy.
•	•				•	•	•	488 nm	530/30		FITC (Ex _{max} 494 nm/Em _{max} 520 nm) Fluorescein isothiocyanate (FITC) is a fluorochrome with a molecular weight of 389 Da. FITC is sensitive to pH changes and photobleaching. Due to nearly identical excitation and emission properties, FITC and Alexa Fluor® 488 cannot be used simultaneously. FITC is relatively dim and should be reserved for highly expressed markers whenever possible.
•	•				•	•	•	488 nm 532 nm 561 nm	575/26		PE (Ex _{max} 496 nm/Em _{max} 578 nm) R-phycoerythrin (PE) is an accessory photosynthetic pigment found in red algae. It exists in vitro as a 240-kDa protein with 23 phycoerythrobilin chromophores per molecule. This makes PE the brightest fluorochrome for flow cytometry applications, but its photobleaching properties make it unsuitable for fluorescence microscopy.
		•		•	•			488 nm 532 nm 561 nm	610/20		BD Horizon™ PE-CF594 (Ex _{max} 496 nm/Em _{max} 612 nm) is a tandem conjugate, developed exclusively by BD Biosciences, that combines PE and CF594. PE-CF594 is a brighter alternative to PE-Texas Red® with improved spectral characteristics.
	•	•	•	•	•	•		488 nm 532 nm 561 nm	670/14		PE-Cy TM 5 (Ex _{max} 496 nm/Em _{max} 667 nm) is a tandem conjugate that combines phycoerythrin and the cyanine dye Cy5. Because of its broad absorption range and the fact that its emission spectra are equivalent to APC, PE-Cy5 is not recommended for simultaneous use with APC. The Cy5 molecule has been shown to exhibit nonspecific binding to Fc receptors, which is most apparent on monocyte populations.
•	•	•	•	•	•	•		488 nm 532 nm	695/40		PerCP (Ex_{max} 482 nm/ Em_{max} 678 nm) is a component of the photosynthetic apparatus found in the dinoflagellate Glenodinium. PerCP is a protein complex with a molecular weight of ~35 kDa. Due to its photobleaching characteristics, PerCP conjugates are not recommended for use on flow cytometers with high-power lasers (>25 mW).
•	•	•	•	•	•	•	•	488 nm 532 nm	695/40		PerCP-Cy TM 5.5 (Ex _{max} 482 nm/Em _{max} 695 nm) is a tandem conjugate that combines PerCP with the cyanine dye Cy5.5. PerCP-Cy5.5 is not subject to photobeaching like PerCP and can be used with stream-in-air flow cytometers. Additionally, the PerCP-Cy5.5 tandem conjugate is not as susceptible to fixative or light instability compared to APC-Cy TM 7 and PE-Cy7.
•	•	•	•	•	•	•	•	488 nm 532 nm 561 nm	780/60		PE-Cy TM 7 (Ex _{max} 496 nm/Em _{max} 785 nm) is a tandem fluorochrome that combines PE and the cyanine dye Cy7. PE-Cy7 is sensitive to photo-induced degradation, resulting in loss of fluorescence and changes in spillover. Extreme caution must be taken to avoid light exposure and prolonged exposure to paraformaldehyde fixative. Fixed cells should be analyzed within 4 hours of fixation in paraformaldehyde or transferred to a paraformaldehyde-free buffer for overnight storage.











* Capable of detecting 8 colors simultaneously (4 blue laser, 2 red laser, 2 violet laser). PE-CF594 and Alexa Fluor® 700 filters are available separately.

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