BD Horizon RealYellow™ 775 Reagents

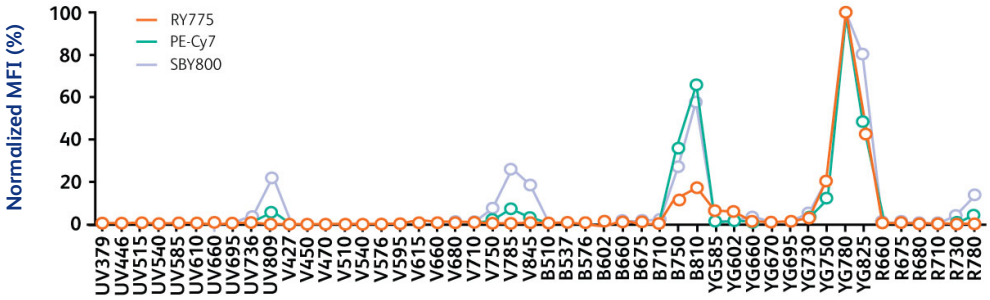
The superior alternative to PE-Cy7 for both conventional and spectral cytometry

BD Horizon RealYellow™ 775 (RY775) Reagents belong to a family of reagents specially engineered to deliver reduced spillover and optimize resolution when used with other fluorochromes—helping simplify panel design and enable high-parameter research on both conventional and spectral flow cytometers. This bright fluorochrome is excited primarily by the 561-nm yellow-green laser. Compared to PE-Cy7, RY775 offers reduced cross-laser excitation off the blue laser and improved nonspecific monocyte binding and supports the detection of low-expression surface and intracellular markers.

Format	Laser Line	Instrument	Cross-laser excitation	Relative Brightness	Alternative to
RY775	561-nm yellow-green	spectral + conventional	reduced off the 488-nm blue	■■■■	PE-Cy7 or StarBright™ Yellow 800 when used with a yellow-green laser*

* On four- or five-laser configuration (B, V, R, YG or UV, V, B, YG, R)

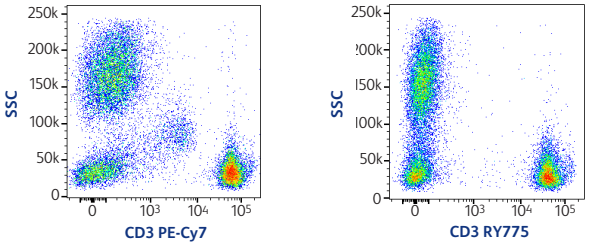
RY775 has reduced cross-laser excitation



Reduced cross-laser excitation compared to PE-Cy7 and StarBright™ Yellow 800 (SBY800)

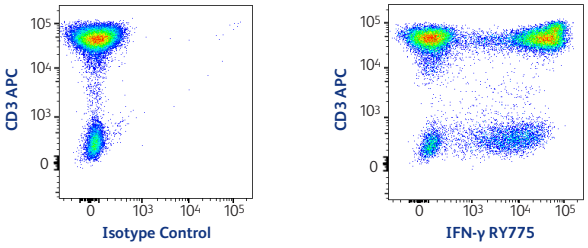
Normalized emission profiles of RY775, PE-Cy7 and SBY800 fluorochromes

RY775 provides improved nonspecific binding compared to PE-Cy7 and supports detection of low-expression intracellular markers



RY775 has minimal monocyte background

Human whole blood was stained with human CD3 (SK3) PE-Cy7 or RY775 followed by lysis with BD FACS™ Lysing Solution. Samples run on a BD FACSymphony™ A5 SE Cell Analyzer.



RY775 resolves intracellular markers well

BD Pharmingen™ HiCK-1 Human Cytokine Positive Control Cells were permeabilized and stained with either a matched isotype control (left) or IFN-γ (B27) RY775 (right). Samples were acquired on a BD FACSymphony™ A5 SE Cell Analyzer with compensation.

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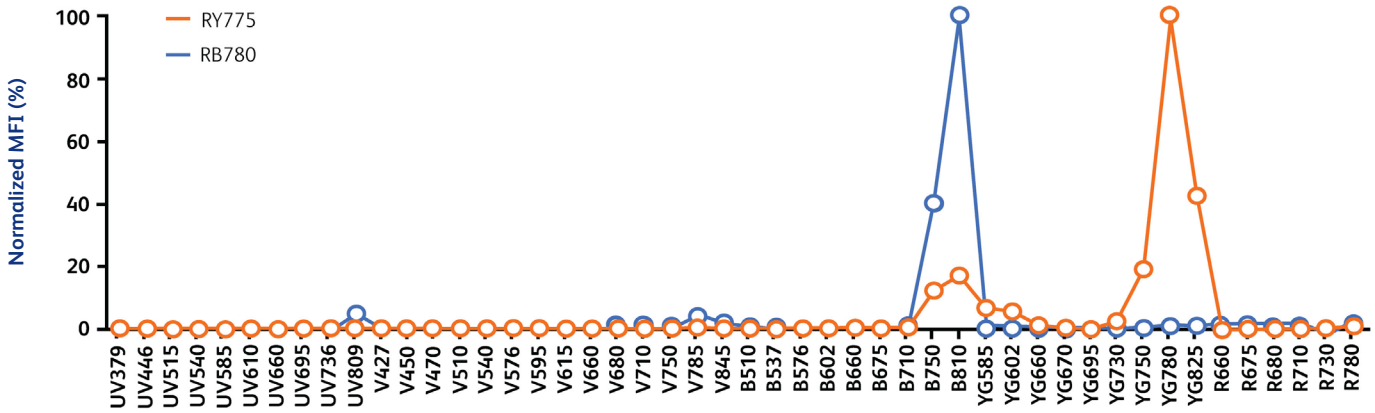
RB780 and RY775 can be used together in flow cytometry panels

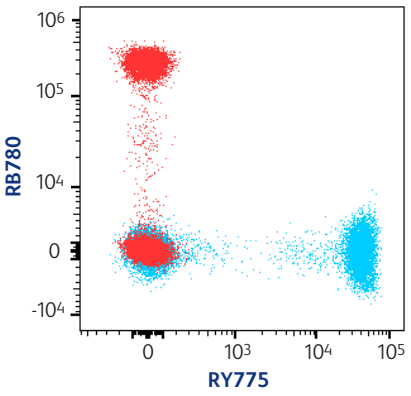


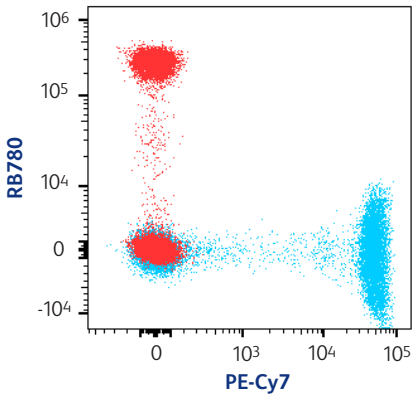
Normalized emission profiles for RB780 and RY775

RB780 and RB775 have distinct emission profiles and minimal cross-laser excitation. Samples run on a BD FACSymphony™ A5 SE Cell Analyzer.

For improved performance and increased panel design flexibility, RY775 reagents can be paired with BD Horizon RealBlue™ 780 (RB780) Reagents. Both dyes have reduced cross-laser excitation, which enables their superior performance when used together on instruments with both blue and yellow-green lasers and the appropriate filters, such as the BD FACSymphony™ A3, A5 and A5 SE Analyzers as well as the BD FACSDiscover™ S8 Cell Sorter.

Pair RB780 with RY775 instead of PE-Cy7 for more flexibility in panel design





RY775 improves performance when used with RB780 on instruments equipped with both blue and yellow-green lasers

PBMCs stained with either CD4 RB780, CD4 RY775 or CD4 PE-Cy7. Samples acquired on the BD FACSDiscover™ S8 Cell Sorter and spectrally unmixed in FlowJo™ Software with BD SpectralFX™ Technology.

For more information, please visit **bdbiosciences.com/real.**

BD flow cytometers are Class 1 Laser Products.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.