BD Horizon RealYellow™ 775 Reagents

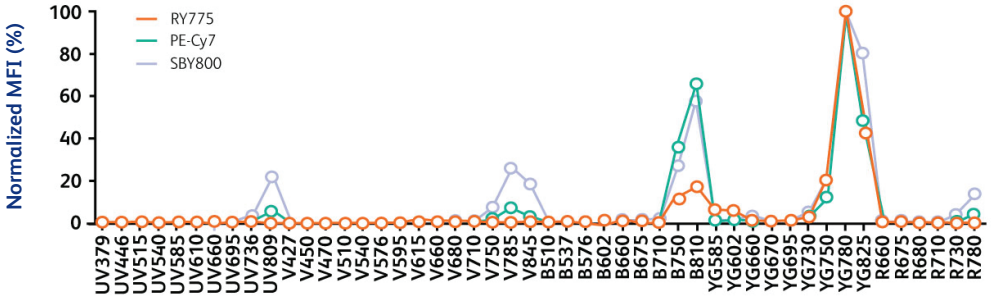
The superior alternative to PE-Cy7 for both conventional and spectral cytometry

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)

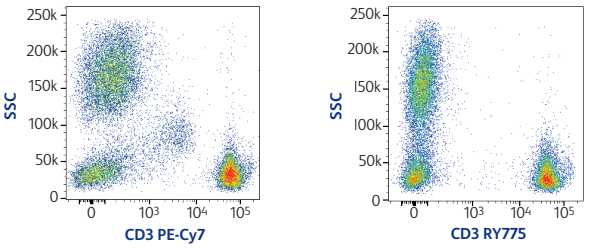
RY775 has reduced cross-laser excitation



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

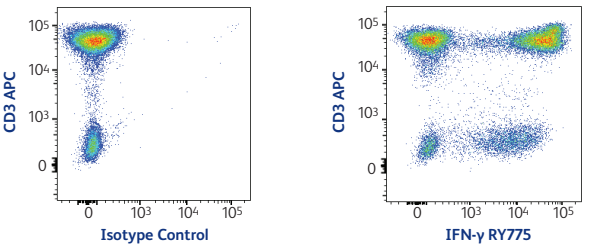
Normalized emission profiles of RY775, PE-Cy7 and SBY800 fluorochromes

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



RY775 has minimal monocyte background

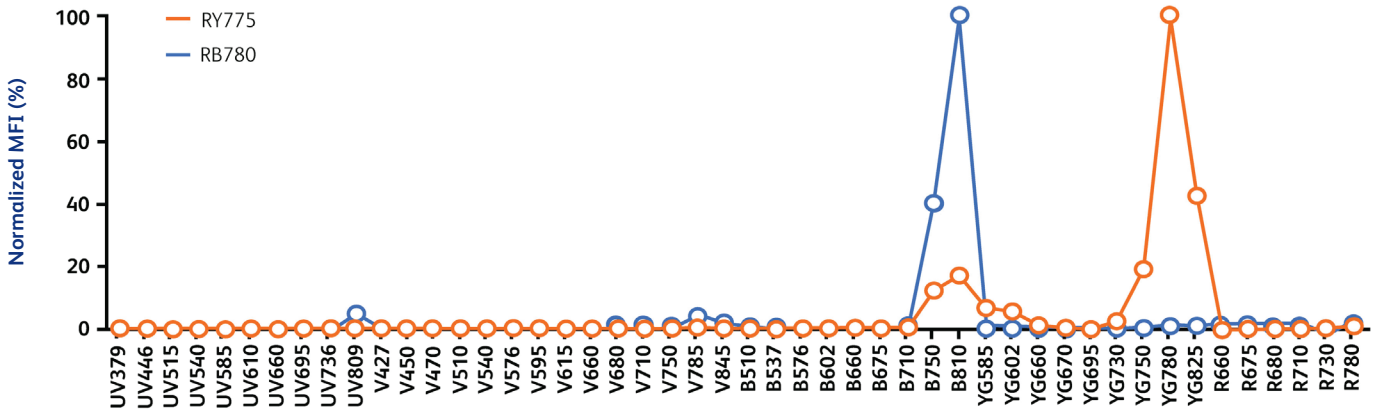
Human whole blood was stained with human CD3 (SK3) PE-Cy7 or RY775 followed by lysis with BD FACS™ Lysing Solution. Samples run on a BD FACSymphony™ A5 SE Cell Analyzer.



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.

RB780 and RY775 can be used together in flow cytometry panels

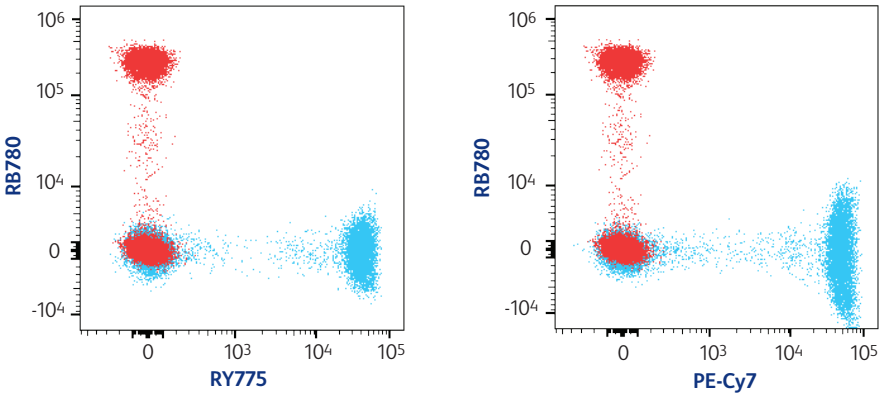


Normalized emission profiles for RB780 and RY775

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.

BD flow cytometers are Class 1 Laser Products.

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

For more information, please visit **www.fishersci.com/us/en/brands/I9C8LSLG/bd-biosciences**

BN248843851-US