

BD Horizon RealBlue™ 613 Reagents and BD Horizon RealYellow™ 610 Reagents

Specially designed to improve the resolution of your flow cytometry data



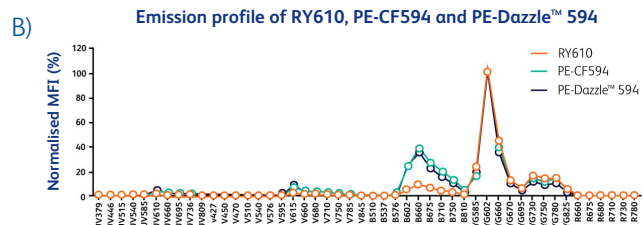
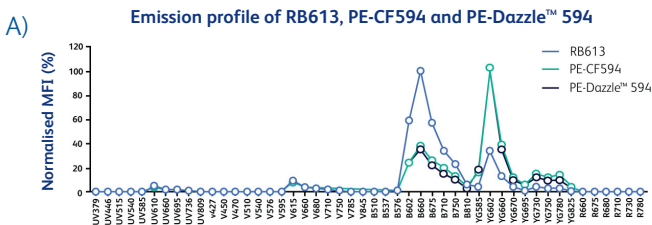
BD Horizon RealBlue™ 613 (RB613) Reagents and BD Horizon RealYellow™ 610 (RY610) Reagents are members of a family of reagents specially engineered to deliver reduced spillover and optimise resolution when used with other fluorochromes—helping to enable flexible panel design and high-parameter research on both conventional and spectral flow cytometers. Compared to PE-tandem fluorochromes such as PE-CF594 and PE-Dazzle™ 594, these bright fluorochromes are designed to offer reduced cross-laser excitation, provide stable reagent performance for reproducible results and be compatible with a variety of common fixation and permeabilisation systems.

Format	Laser line	Instrument	Cross-laser excitation	Relative brightness	Alternative to
RB613	488 nm blue	spectral + conventional	reduced off the 561 nm yellow-green		PE-CF594 or PE-Dazzle™ 594 when used with a blue laser*
RY610	561 nm yellow-green	spectral + conventional	minimal off the 488 nm blue		PE-CF594 or PE-Dazzle™ 594 when used with a yellow-green laser**

* On three-laser configuration (B, V, R)

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

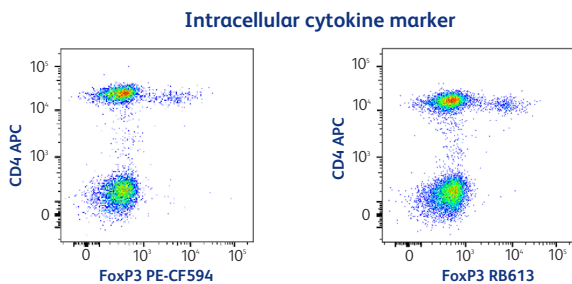
RB613 and RY610 have reduced cross-laser excitation



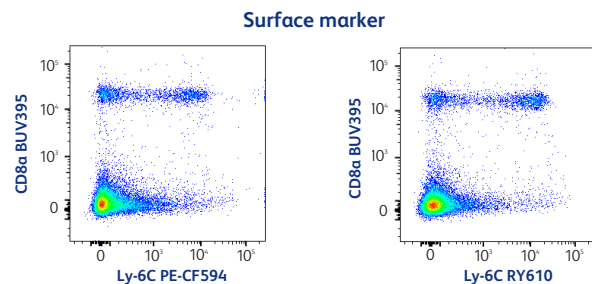
Normalised emission profiles of RB613, RY610, PE CF594 and PE-Dazzle™ 594 Fluorochromes

RY610 and RB613 have distinct emission profiles and reduced cross-laser excitation. A) and B) Samples run on a BD FACSymphony™ A5 SE Cell Analyser.

A variety of expression levels can be resolved with RB613 and RY610



Human PBMCs were fixed and permeabilised using the BD Pharmingen™ Transcription Factor Buffer Set. Cells were then stained with PE-CF594 (left) or RB613 (right) FoxP3 (259D/C7) and costained with CD4 (SK3) APC followed by acquisition on a BD FACSymphony™ A5 SE Cell Analyser with compensation in FlowJo™ Software. Data shown using the B602 filter for both PE-CF594 and RB613.

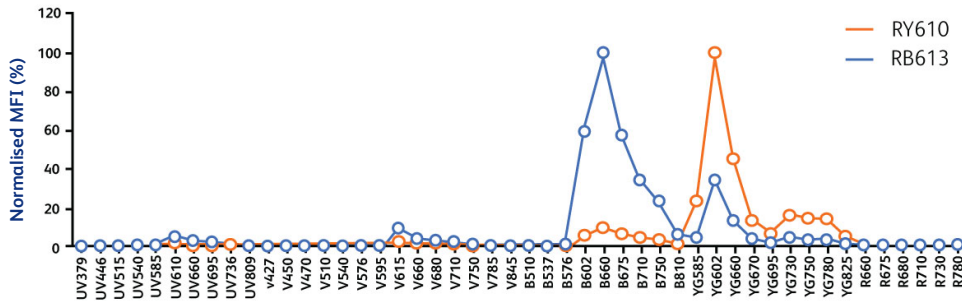


Mouse splenocytes were stained with PE-CF594 (left) or BD Horizon™ RY610 Reagent (right) Ly-6C (AL-21), co-stained with BUV395 CD8a (53-6.7) and acquired on a BD FACSymphony™ A5 SE Cell Analyser with compensation.



RB613 and RY610 can be used together in flow cytometry panels

RB613 and RY610 have distinct spectral profiles so that they can be 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 Analysers as well as the BD FACSDiscover™ S8 Cell Sorter.



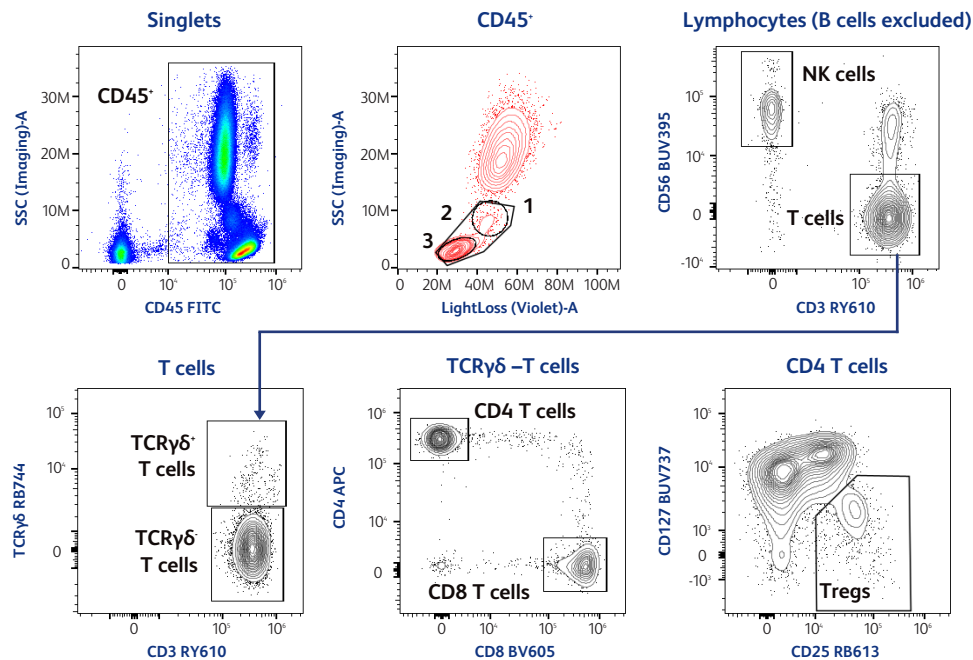
Normalised emission profiles for RB613 and RY610

RY610 and RB613 have distinct emission profiles and minimal cross-laser excitation. Samples run on a BD FACSymphony™ A5 SE Cell Analyser.

Here we've demonstrated the use of RB613 and RY610 together in a 22-colour human lineage spectral panel run on the BD FACSDiscover™ S8 Cell Sorter.

RB613 and RY610 reagents work well together in a 22-colour human lineage spectral panel

Human peripheral fresh whole blood samples were stained with antibodies against cell surface markers prior to bulk red blood cell lysis with BD Pharm Lyse™ Lysing Buffer. Cells were then analysed on a BD FACSDiscover™ S8 Cell Sorter and analysed with FlowJo™ Software v10.9. A gating strategy for detection of NK and T cell subsets, after exclusion of doublets and B cells, is shown. In the CD45⁺ population, population 1 is referring to monocytes only, 2 is referring to monocytes and lymphocytes and 3 is referring to lymphocytes only.



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.

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