BD Horizon Brilliant™ Violet 605 Analyte Specific Reagents

Violet Laser Reagents

Features

- Maximizes flexibility as a bright color choice for the violet laser
- Provides excellent resolution of dim populations
- Supports multiplexing with other BD Biosciences ASRs
- Developed using Nobel Prize winning chemistry

BD Biosciences expands panel design options

BD Biosciences provides new options for multicolor flow cytometry by offering BD Horizon Brilliant™ Violet 605 (BV605) analyte specific reagents (ASRs). Because of the brightness of the BD Horizon BV605 dye, new opportunities are available for dim marker identification using the violet laser. The dye's spillover properties, stability under light and in standard buffers, and compatibility with blood collection tubes offer ease-of-use for a range of applications. Additionally, to support multiplexing, BD Horizon BV605 reagents have been tested to confirm compatibility with ASRs conjugated to other BD Biosciences dyes.

Bright dye for the violet laser

BD Horizon BV605 is a tandem fluorochrome that combines BD Horizon Brilliant™ Violet 421 (BV421) with an acceptor dye with an emission maximum at 602 nm. Developed using Nobel Prize winning chemistry, the dye provides a bright choice for the violet laser. With a maximum excitation of 407 nm and an emission peak at 602 nm (Figure 1), BD Horizon BV605 can be used on flow cytometers equipped with a violet laser and appropriate filters, such as the 10-color BD FACSCanto™ System*. Exhibiting a larger Stain Index than BD Horizon™ V450 or BD Horizon™ V500-C (Table 1), the fluorochrome enables improved population resolution of dim populations (Figure 2).

Compatible with multiplexing for multicolor flexibility

BD Horizon BV605 ASRs exhibit low spillover into adjacent channels, making it easier to incorporate them into multicolor experiments (Table 2). Additionally, they are compatible in combination with ASRs conjugated to other BD Biosciences dyes to support multicolor experiments.

Stable for a range of workflows

BD Horizon BV605 ASRs are stable in ambient light for at least 24 hours and also stable at room temperature for at least 24 hours following whole blood staining and fixation with 1% paraformaldehyde. Additionally, they are able to be used with common buffers and other fixatives for cell surface staining, expanding options for staining protocols. This, combined with their compatibility with both EDTA and heparin blood collection tubes, offers ease-of-use for a range of laboratory protocols.

* Seven- to ten-color assays are for Research Use Only.

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For Research Use Only. Not for use in diagnostic or therapeutic procedures.
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Figure 2. BD Horizon BV605 stained cells demonstrate better resolution of the positive population than cells stained with BD Horizon V450 or BD Horizon V500-C.

Lysed whole blood stained with BD Horizon BV605, BD Horizon V450, and BD Horizon V500-C conjugated to CD7 (M-T701) gated on lymphocytes on a 10-color BD FACSCanto™ System.

Table 2. Across specificities BD Horizon BV605 spillover values are low into adjacent channels.

Percent spillover into adjacent channels of lysed whole blood stained with CD7, CD11c, and CD24 BD Horizon BV605 on a 10-color BD FACSCanto™ System.