

BD FACSCorus™ Software v6.3 for the BD FACSDiscover™ Platform

BD FACSCorus™ Software v6.3 introduces powerful new imaging and automation capabilities that streamline your workflow, enhance data clarity and improve usability of your BD FACSDiscover™ instrument.



Talk to your representative about upgrading your software today!



Feature Highlight: Image Unmixing

Image Unmixing simplifies 2- and 3-color imaging experiments. While BD FACSCorus™ Software v6.3 calculates the spectral unmixing matrix, it also generates an imaging spectral matrix to remove spillover from secondary imaging parameters in the imaging detectors. This not only clarifies multi-parametric imaging data but also increases reagent choices when designing imaging panels.

Image Unmixing enables clear visualization of each fluorescent marker in a 3-color imaging panel

Unmixed images populate the Image Wall in real-time during acquisition, allowing you to clearly see your markers of interest. Additionally, the image features are calculated with spillover removed.

Compare the same three cells shown in this example, without Image Unmixing and with Image Unmixing to see how unmixing enables clear visualization of each fluorescent marker.

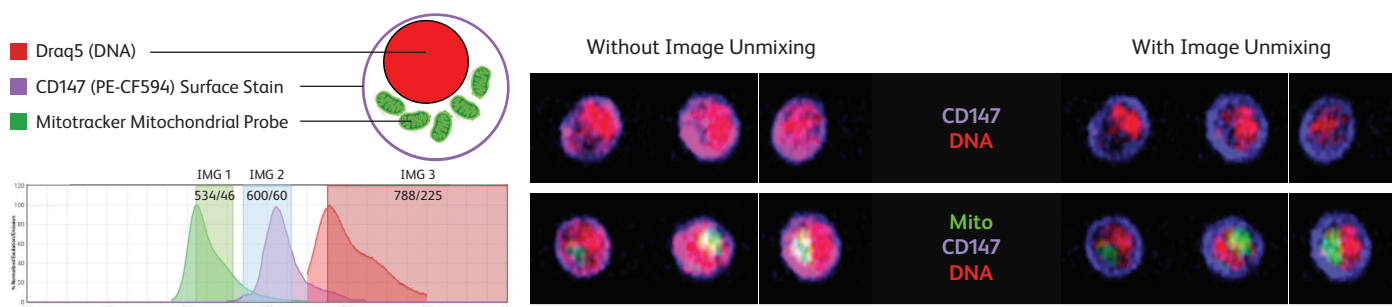


Figure 1. HT1080 cells were stained with a mitochondrial probe (Imaging Channel 1, IMG1), CD147 surface marker (Imaging Channel 2, IMG2) and Draq5 DNA stain (Imaging Channel 3, IMG3).

Image Unmixing increases panel flexibility

With the introduction of Image Unmixing, assay design has become more flexible, enabling greater confidence and accuracy in your results. This new feature allows you to combine reagents more effectively, ensuring precise outcomes with flexibility and efficiency.

In this example with highly overlapping dyes, Image Unmixing is required to resolve the 50/50 mix of translocated and untranslocated cells. This ability to now use highly overlapping dyes for imaging greatly simplifies panel design.

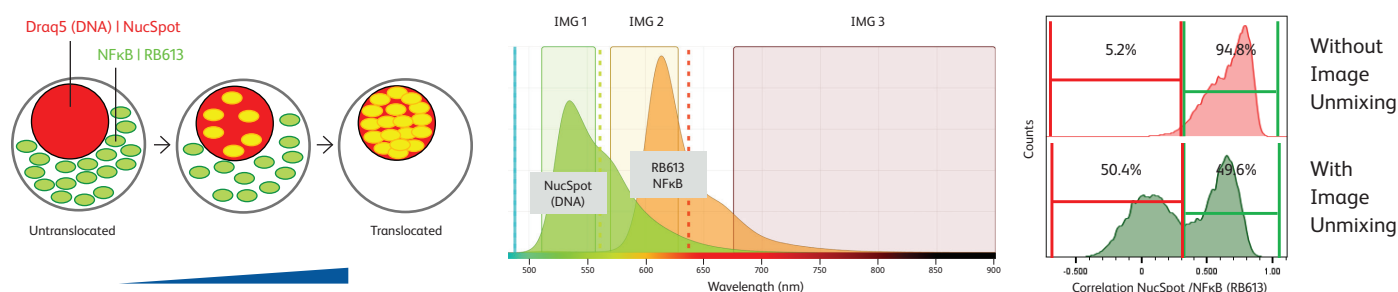


Figure 2. HT1080 cells were treated or left untreated with TNF- α . Treated cells exhibited a translocated NF κ B phenotype, while untreated cells remained untranslocated. Using a 50/50 mix of the two samples, cells were stained with a biotinylated anti-NF κ B (p65 subunit) antibody and BD Horizon RealBlue™ 613 Reagent (RB613) streptavidin. Samples were then counterstained with Nucspot, a DNA stain.

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