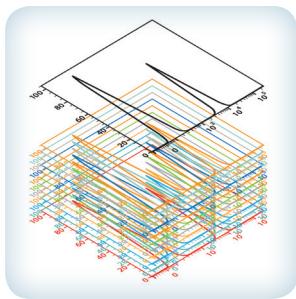




Consistency



Reagents you can rely on from batch to batch and decade to decade

For more than 40 years, BD Life Sciences has been helping researchers advance their science. We understand the value of consistency and that's reflected in all of the flow cytometry products we develop. In particular, reagent consistency from lot to lot and over time is critical to the reproducibility of results. For this reason BD Life Sciences continues to set the example in measures of quality, consistency and reliability.

Working to give researchers more confidence in their results

Once our Research & Development (R&D) team completes evaluation of a new product, the process is transferred to our manufacturing teams including Quality Control. SOPs and guidelines according to ISO requirements are strictly followed to ensure that subsequent batches of the reagent provide reproducible results to help you obtain experimental success and confidence in your research.

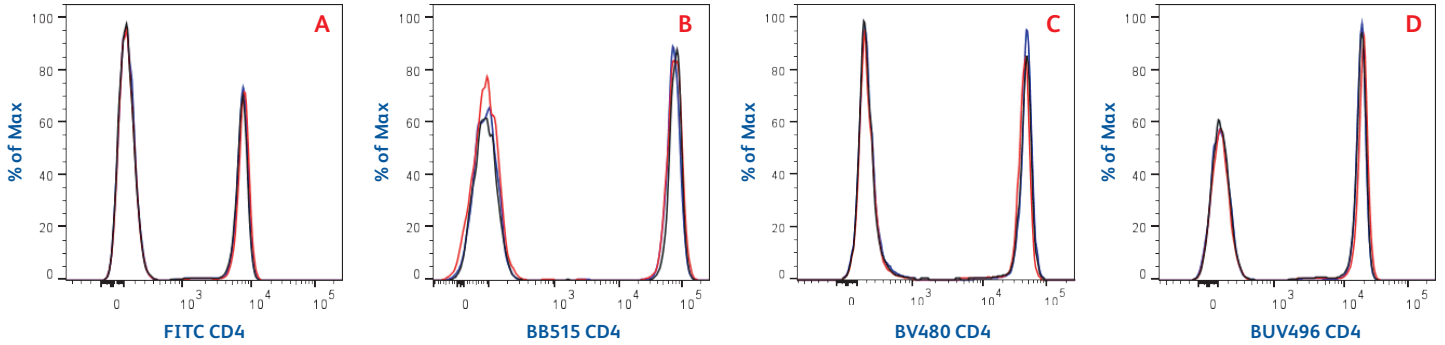
This includes testing side by side with prior batches as reference so that the new batch provides consistent performance in the intended application. Our strict adherence to these guidelines results in different lots of fluorochrome-conjugated reagents performing consistently no matter what lot of dye or antibody was used or when it was manufactured.

BD Life Sciences (cited as BD Biosciences) products have been cited in more than 30,000 articles in the last ten years.



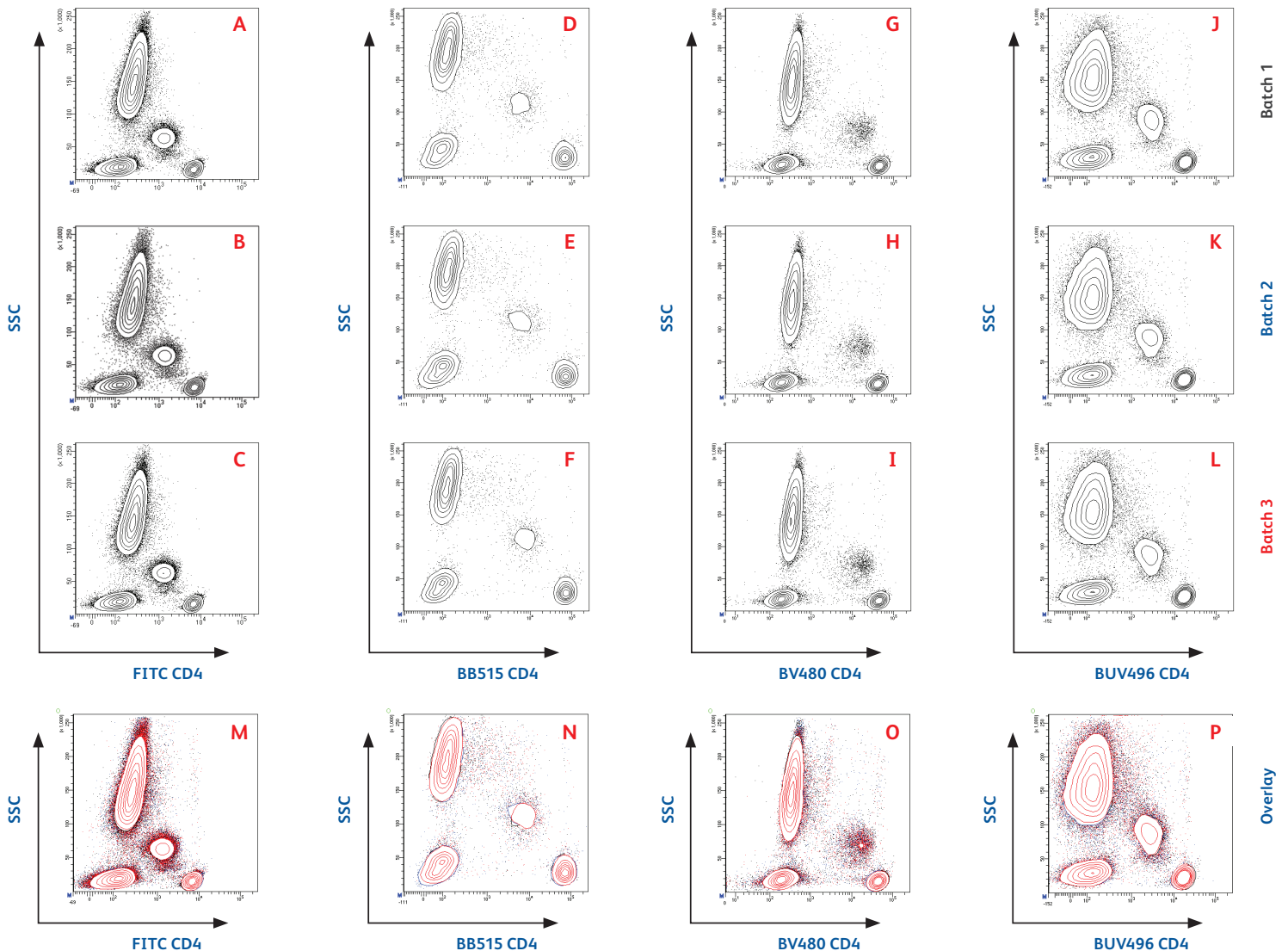
Different production batches are consistent regardless of type of antigen or type of dye

Batch-to-batch consistency – Figure 1



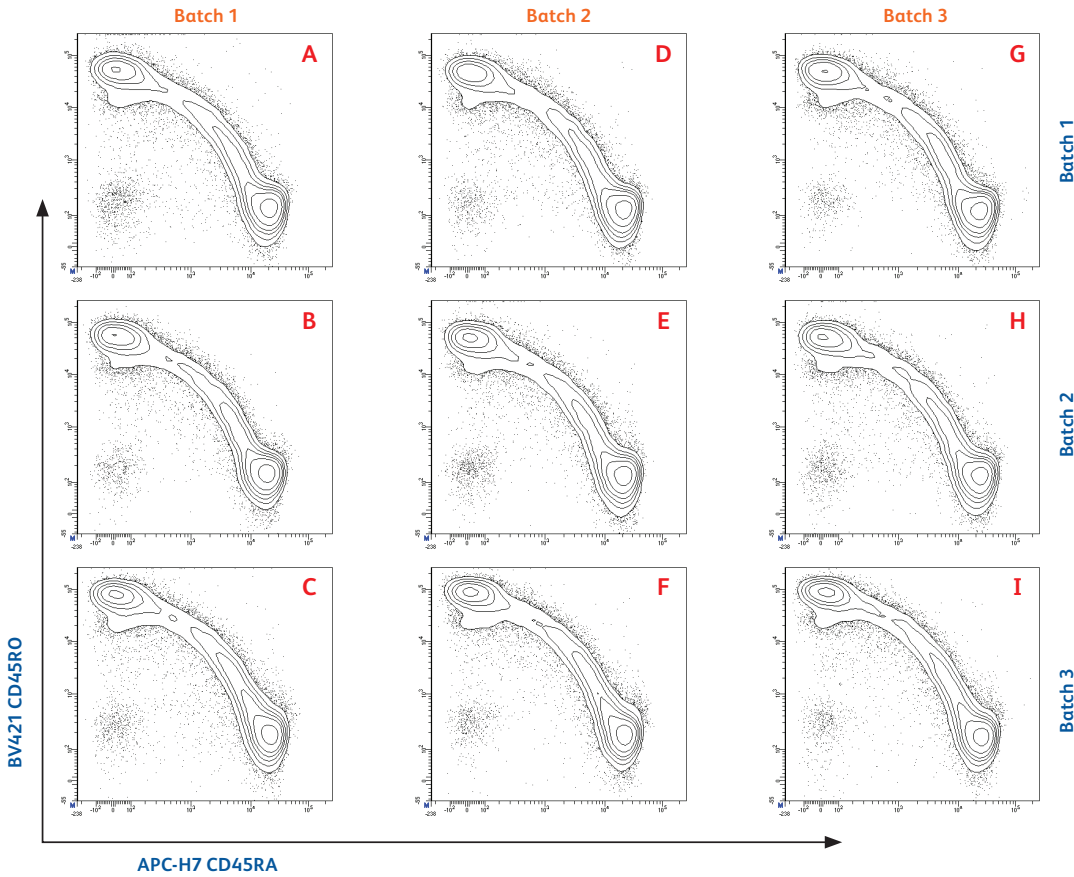
High-density antigen Fluorescence histogram overlay showing consistent performance of three different production batches of anti-human CD4 (SK3) antibodies, each identified by **blue**, **red** and **black** histograms. Each histogram overlay represents CD4 expression in human lysed whole blood cells prepared from a single donor and gated on events with forward and side light-scatter characteristics of lymphocytes. Analysis was performed using a BD LSRFortessa™ X-20 flow cytometer.

Batch-to-batch consistency – Figure 2



High-density antigen Two-color contour plots showing consistent performance of three different production batches of anti-human CD4 (SK3) antibodies. The two-color contour plots showing the correlated expression of CD4 versus side light-scatter were derived from gated events with the forward and side light-scatter characteristics of live cells. Individual batches are identified in the contour plot overlay by **red**, **blue** and **black** contours. Lysed whole blood from a single donor was stained with each set of conjugate formats. Analysis was performed using a BD LSRFortessa™ X-20 flow cytometer.

Batch-to-batch consistency – Figure 3

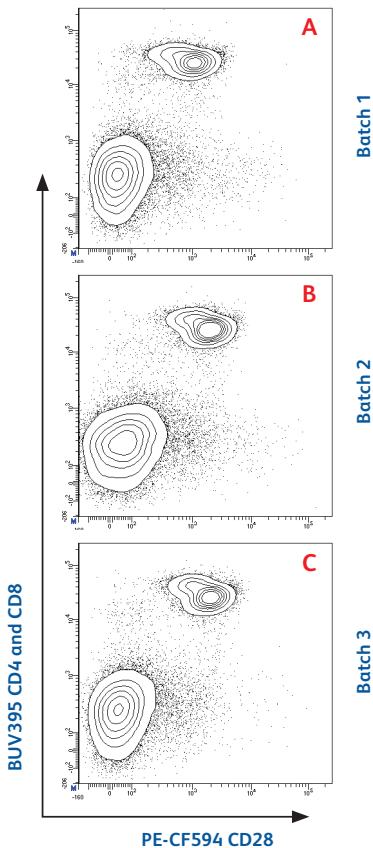


Antigen expressed in a continuum

Two-color contour plots showing consistent performance of three different production batches of APC-H7-conjugated anti-human CD45RA (HI100, orange batches) and BV421-conjugated anti-human CD45RO (UCHL1, blue batches).

Correlated expression of CD45RA versus CD45RO in lysed whole blood cells prepared from a single donor and gated on events with the forward and side light-scatter characteristics of intact lymphocytes. Analysis was performed using a BD LSRFortessa™ X-20 flow cytometer.

Batch-to-batch consistency – Figure 4



Low-density antigen Two-color contour plots showing consistent performance of 3 different production batches of PE-CF594 conjugated anti-mouse CD28 (37.51).

The two-color contour plots showing the correlated expression of CD28 versus CD4 and CD8 were derived from gated events with the forward and side light-scatter characteristics of intact lymphocytes (BALB/c splenocytes). Analysis was performed using a BD LSRFortessa™ X-20 flow cytometer.

The different production batches shown here were manufactured over multiple years with different purified antibody and dye batches in some instances. For example, two batches of CD45RO BV421 were conjugated three years apart. This demonstrates that BD reagents will continually perform with minimal lot-to-lot variation so that you can be confident in your results in a multisite or longitudinal study.

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23-18489-00

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