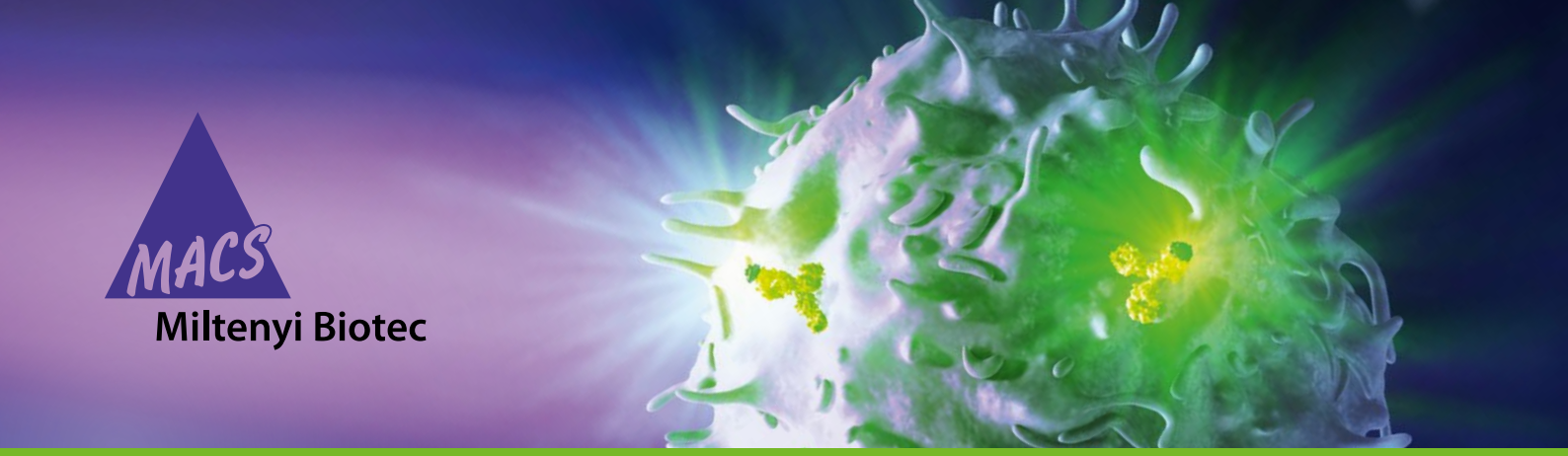

Miltenyi Biotec

MACS® Antibodies

# Quality assured – from lot to lot

## Lot-to-lot consistency

Consistent lot-to-lot performance among different antibody batches is of critical importance both in research and clinical settings. This helps ensure that data from long-term studies remain reliable and accurate throughout the project, without the need for staining recalibration between antibody lots. Each antibody batch produced by Miltenyi Biotec is tested to ensure optimal mean fluorescence intensity (MFI), stain index, and lot-to-lot consistency.

Especially for tandem dyes lot-to-lot consistency is not a given as they are the result of a complex production process and generally considered less stable than single dyes. However, our standardized conjugation procedures and strict quality control measures ensure consistent donor:acceptor and f/p ratios, be it for antibodies labeled with single fluorochromes or our exceptionally stable Vio® Dye tandem dyes.

Figure 1 shows data from two individual antibody production lots that were used for staining PBMCs from a single donor. Different antibodies are shown as examples. The results demonstrate that staining is highly reproducible between lots.

Miltenyi Biotec's high standards and extensive quality control of all products ensure that users can rely on a high level of consistency across the MACS® Antibody range. Researchers can feel confident in obtaining excellent quality and overall value to support their studies.

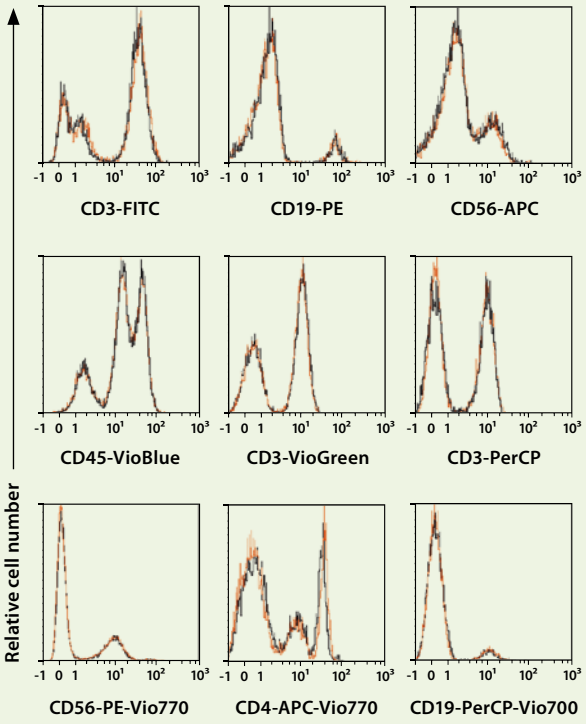


**Figure 1:** Human PBMCs from a single donor were stained with CD3-FITC, CD19-PE, CD56-APC, CD45-VioBlue®, CD3-VioGreen™, CD3-PerCP, CD56-PE-Vio770™, CD4-APC-Vio770, and CD19-PerCP-Vio700™ from two different production lots, and analyzed on the MACSQuant® Analyzer. The overlayed histograms represent the different lots. Tandem Signal Enhancer (# 130-099-888) was used to increase stain indices of tandem dye–conjugated antibodies.

Miltenyi Biotec provides products and services worldwide. Visit **www.miltenyibiotec.com/local** to find your nearest Miltenyi Biotec contact.