Electronic Supplementary Material (ESI) for Analyst.

Infrared spectral signature of human lymphocyte subpopulations from peripheral blood

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To fully demonstrate that spectral differences in purified lymphocyte fractions cannot be due to spectral differences originating from the antibodies themselves, we recorded infrared images of a smear of anti-CD4 antibody and a smear of anti-CD8 antibody, both coupled to the magnetic beads. Figure S1 demonstrates that spectra of the antibodies coupled to the beads were essentially identical (see figure S1 below)

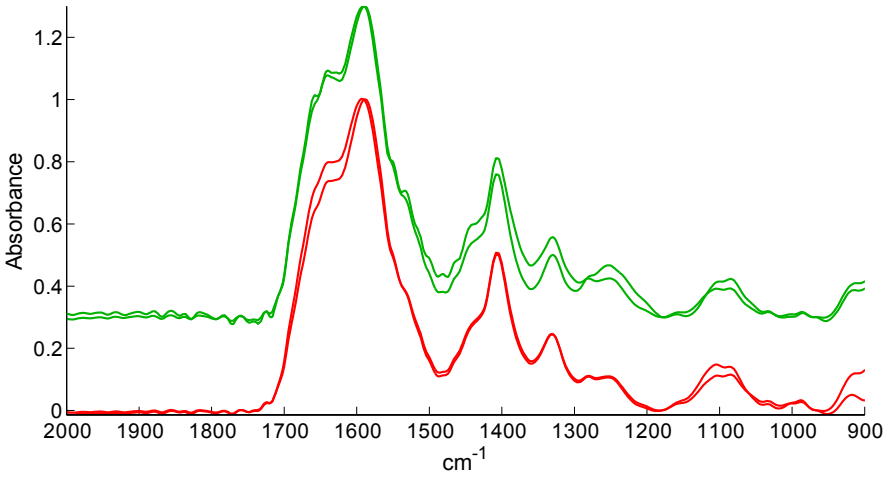

Figure S1: mean infrared spectra of two 64x64 images of a smear of anti-CD8 antibodies (red) and two 64x64 images of a smear of anti-CD4 antibodies (green). Both antibodies were coupled to magnetic beads as described in Materials and methods

A final argument ruling out a differential contributions from the antibodies is that the F-statistics provided in Figure 6 do not highlight the 1700-1500 cm^{-1} region where antibody-bead complex absorbance is at its maximum. We can therefore be confident that the differences observed between cell types is not related to the antibodies used to isolate them.