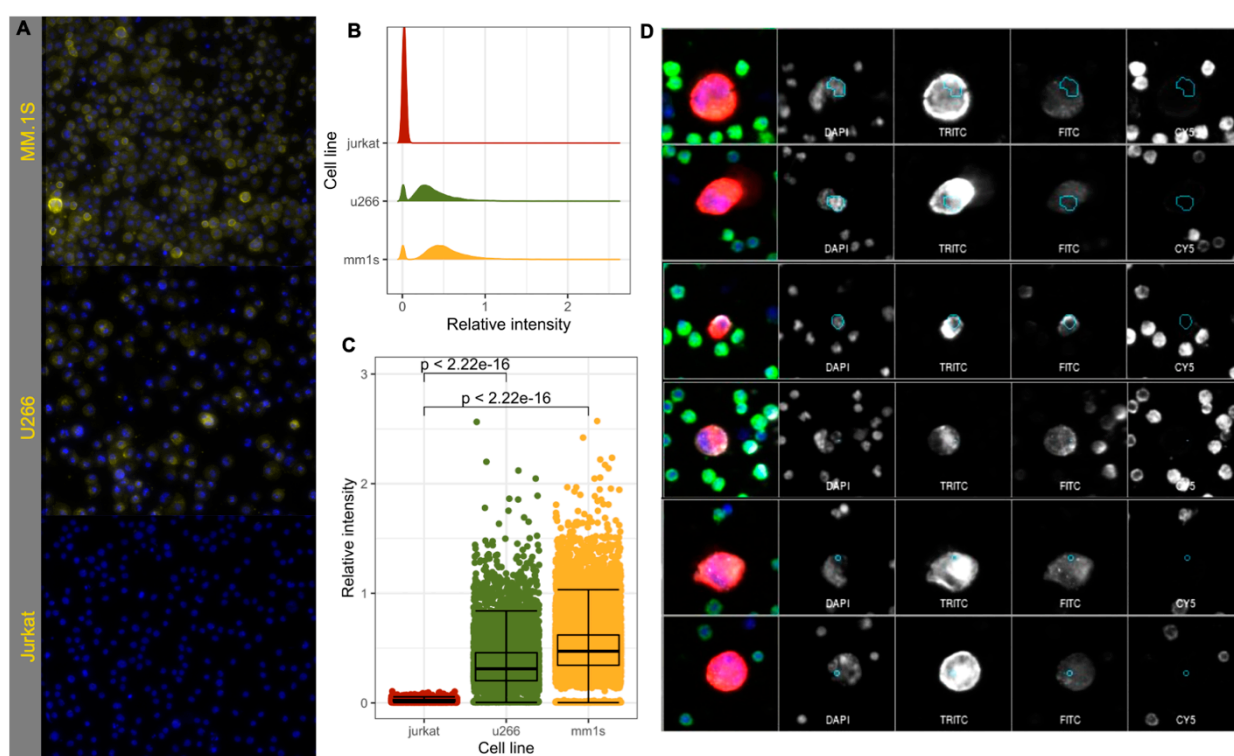


Article

# Enrichment-free Single-cell Detection and Morphogenomic Profiling of Myeloma Patient Samples to Delineate Circulating Rare Plasma Cell Clones

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**Figure S1.** Assay validation of markers in spiked NBD samples. **A.** Representative images at 100x magnification of Jurkat, U266, and MM.1S pure cell lines stained with CD138 (yellow) and DAPI (blue). **B.** Cell density distribution by CD138 intensity across cell cell lines; Jurkat (dark red), U266 (green), MM1s (gold). **C.** Comparative quantification of CD138 intensity in cell lines. **D.** Representative images of U266 spiked in NBD cells stained with CD138 (red), CD45 (green). All nucleated cells DAPI positive (blue).



**Figure S2.** Heatmap representation of all sequenced cells and associated chromosomal alterations across all patients and sample types.