
BD Accuri™ C6 and BD Stemflow™ Pluripotent Stem Cell Kits: Characterization of stem cell pluripotency

This experimental data demonstrates the characterization of human pluripotent stem cell preparations using the BD Accuri™ C6 personal flow cytometer and established combinations of cell surface and intracellular pluripotency markers.

Experiment

H9 human embryonic stem cells (hESCs) were dissociated and analyzed for expression of key pluripotency markers (SSEA-3, SSEA-1, Tra-1-81, Sox2, Nanog, and Oct3/4, SSEA-4). Data was collected and analyzed on a BD Accuri C6 personal flow cytometer. All data shown was gated based on the light scatter properties of H9 hESCs.

Material

Reagents

Panel A: BD Stemflow™ Human Pluripotent Stem Cell Sorting and Analysis Kit (Cat. No. 560461), including SSEA-3, SSEA-1, and Tra-1-81 markers

Panel B: BD Stemflow™ Human Pluripotent Stem Cell Transcription Factor Analysis Kit (Cat. No. 560589), including Sox2, Nanog, and Oct3/4 markers

Panel C: BD Stemflow™ Human and Mouse Pluripotent Stem Cell Kit (Cat. No. 560477), including SSEA-1 and SSEA-4, Oct3/4 markers

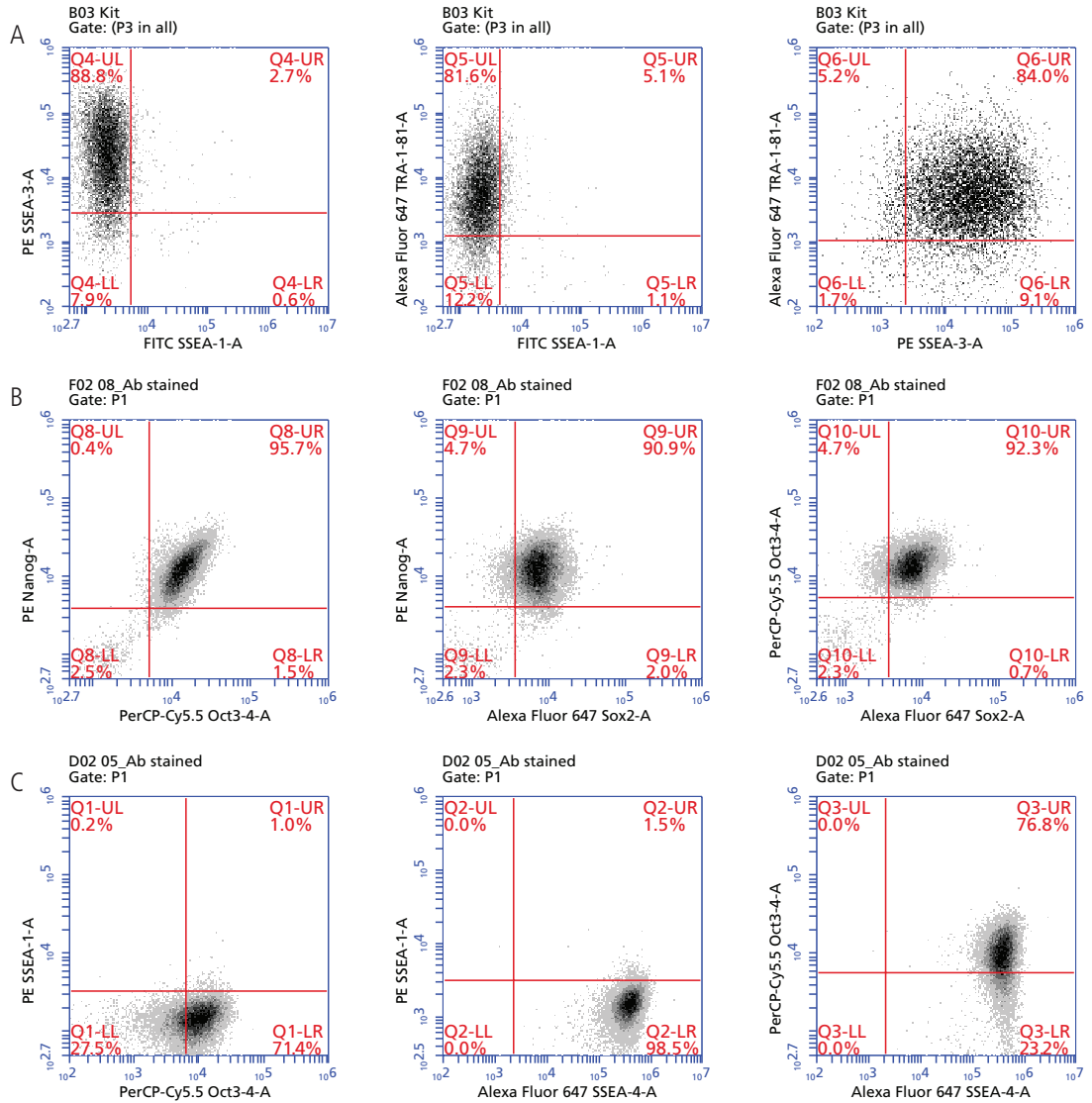
Additional Material

BD Matrigel™ hESC-qualified matrix (Cat. No. 354277)

BD™ Accutase™ Cell Detachment Solution (Cat. No. 561527)



Data



Discussion

The data demonstrates that rapid and multiparametric flow cytometry using the BD Accuri C6 personal flow cytometer and various BD Stemflow Pluripotent Stem Cell kits is effective for characterization of pluripotent stem cell preparations.

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