

Cell line name	MHHi035-A
Bank ID	MB01
Passage No.	12
Date of testing	29.11.2024
Protocol	7.03.0 Validation of pluripotency capacity by Trilineage differentiation with Miltenyi kit

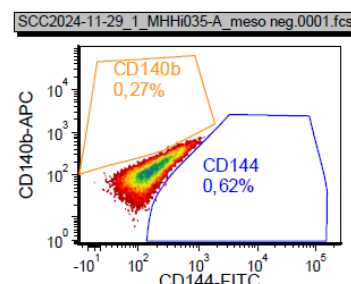
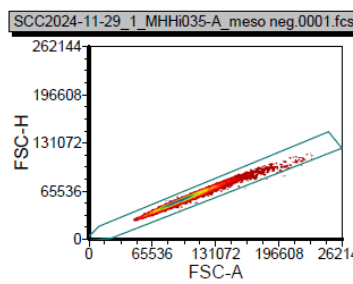
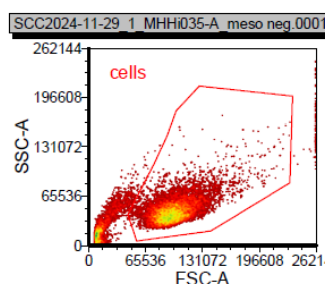
Method

Test was performed regarding the StemMACS Trilineage Differentiation Kit, human (MACS Miltenyi Biotec, Cat-No. 130-115-660). The 7-day assay enables direct differentiation of pluripotent stem cells into ecto-, meso and endoderm. The resulting cell population was measured by FACS analysis.

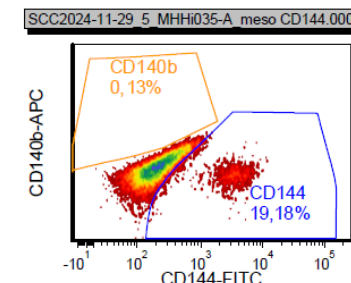
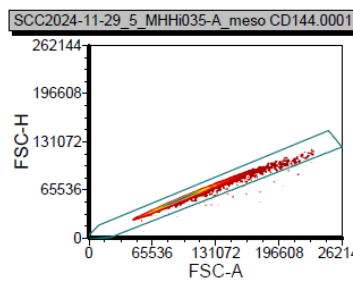
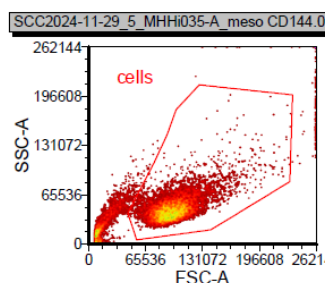
Result

20241129 Trilineage with MHHi035-A MB01 p12 mesoderm differentiation with Miltenyi kit

negative control

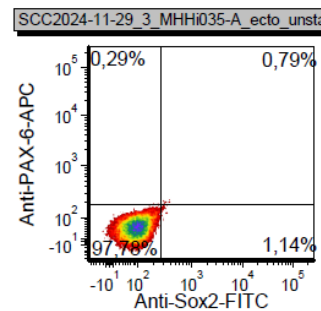
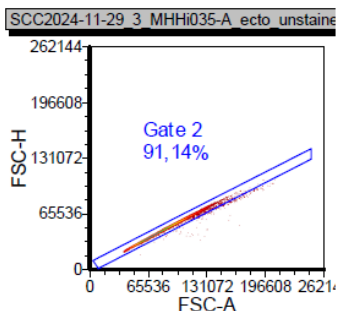
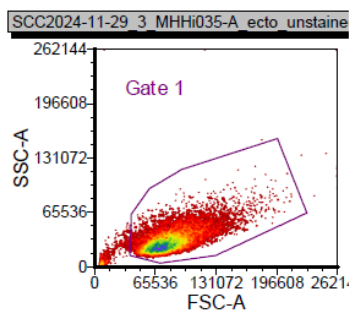


CD140b-APC, human
CD144(VE-Cadherin)-
FITC, human

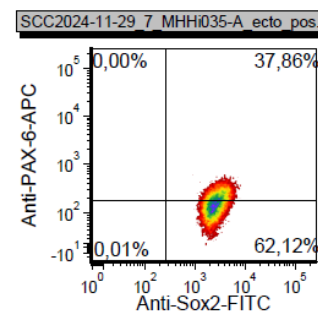
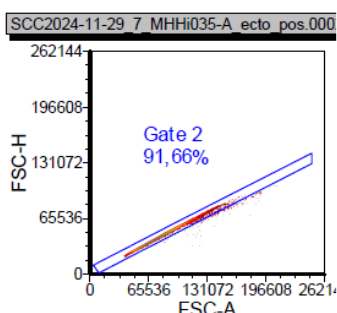
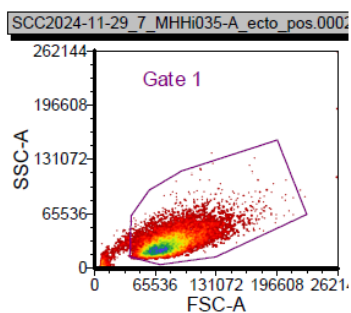


20241129 Trilineage with MHHi035-A MB01 p12 ectoderm differentiation with Miltenyi kit

negative control

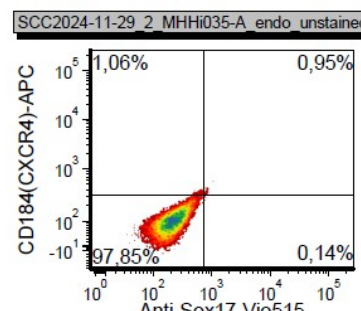
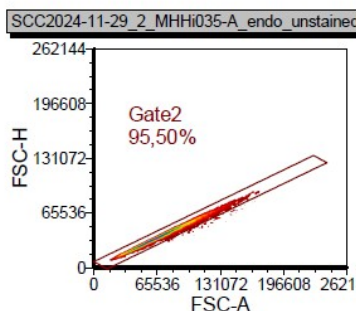
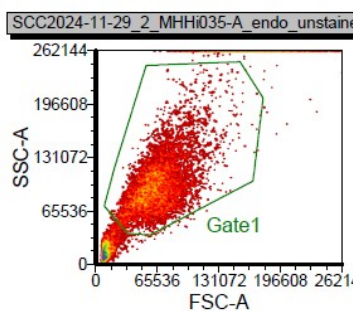


Anti-PAX-6-APC, human
Anti-Sox2-FITC, human

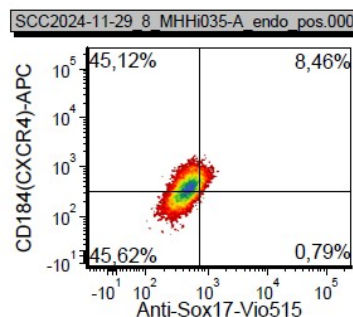
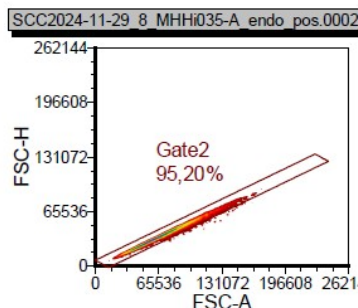
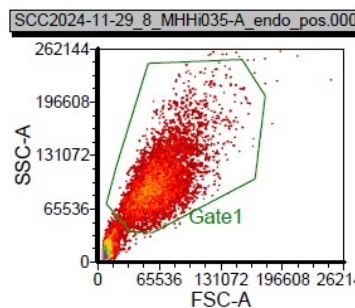


20241129 Trilineage with MHHi035-A MB01 p12 endoderm differentiation with Miltenyi kit

negative control



CD184
(CXCR4)-APC
Anti-Sox17-
Vio515, human



Conclusion

The cell line shows potency to differentiate into mesoderm, ectoderm and endoderm lineages. The lineage markers CD140b, CD144 (Mesoderm), Sox2, Pax6 (Ectoderm) and Sox17, CD184 (Endoderm) showed positive FACS results.

Date: 29.11.2024