



Sample Information	
Sample/Cell Line Name	XXXXXXXXXXXXXXXXXXXX
WiCell Sample ID/CTR Number	XXXXXXXXXX
Passage Number at Assessment	31
Data Acquisition Date	26-Nov-24

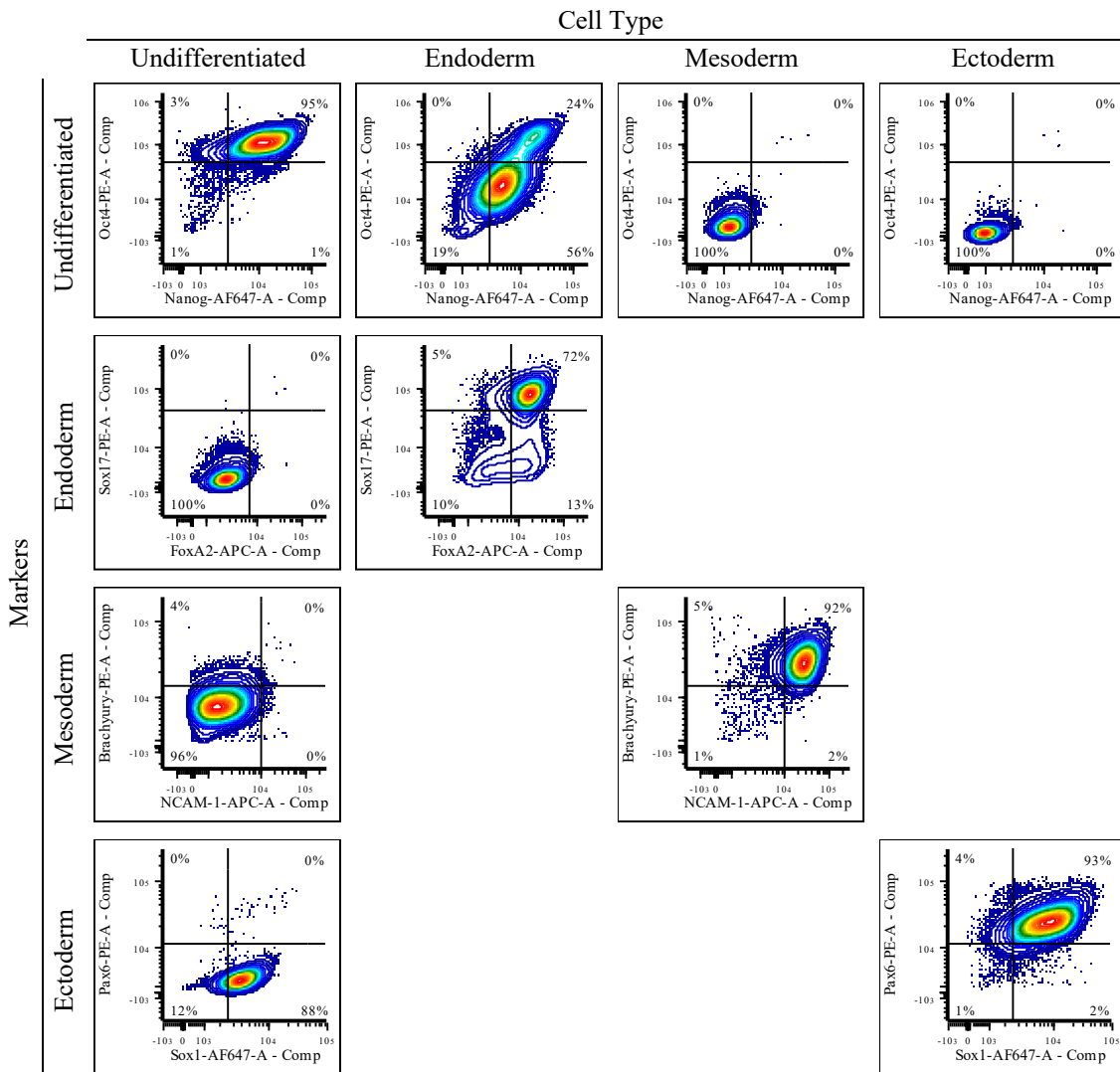
Assay Description

Sample undergoes directed differentiation using the STEMdiff™ Trilineage Differentiation Kit (STEMCELL Technologies Inc.). Expression of undifferentiated and lineage specific markers is assessed by flow cytometry in cells maintained in the undifferentiated state and in cells following 5 days of culture for endoderm and mesoderm lineages, or 7 days of culture for the ectoderm lineage. Results are reported as: (1) the percent of viable cells with positive expression for both lineage markers simultaneously (Dual Positive Expression), and (2) the fold change in % dual positive expression of undifferentiated and lineage specific markers from undifferentiated to differentiated cells. Generally expected results of samples demonstrating pluripotent potential are provided to guide interpretation. Flow cytometry plots are included to visualize expression patterns.

Results						
% Dual Positive Expression						
Cell Type	Markers	Observed	Expected			
Undifferentiated	Oct4/Nanog	95	≥ 75			
Endoderm	Sox17/FoxA2	72	≥ 15			
Mesoderm	Brachy/NCAM-1	92	≥ 15			
Ectoderm	Pax6/Sox1	93	≥ 15			
Fold Change in % Dual Positive Expression from Undifferentiated Cells						
Cell Type	Undifferentiated Markers			Lineage Specific Markers		
	Markers	Observed	Expected	Markers	Observed	Expected
Endoderm	Oct4/Nanog	-0.75	≤ -0.50	Sox17/FoxA2	7199	≥ 5
Mesoderm	Oct4/Nanog	-1.00	≤ -0.50	Brachy/NCAM-1	9199	≥ 5
Ectoderm	Oct4/Nanog	-1.00	≤ -0.50	Pax6/Sox1	9299	≥ 5

Unless otherwise mutually agreed in writing, the services provided to you hereunder by WiCell Research Institute, Inc. ("WiCell") are governed solely by WiCell's Terms and Conditions of Service, found at <http://www.wicell.org/privacyandterms>. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and Conditions of Service are null and void and of no legal force or effect.

Flow Cytometry Plots



All population frequency values, indicated as percentages, have been rounded to zero decimal places. Due to rounding, the sum of all population frequencies indicated in a single plot may not equal exactly 100%.

Approvals

X

Tech #1
Characterization

X

Tech #2
Characterization

X

QA Review
Quality Assurance