

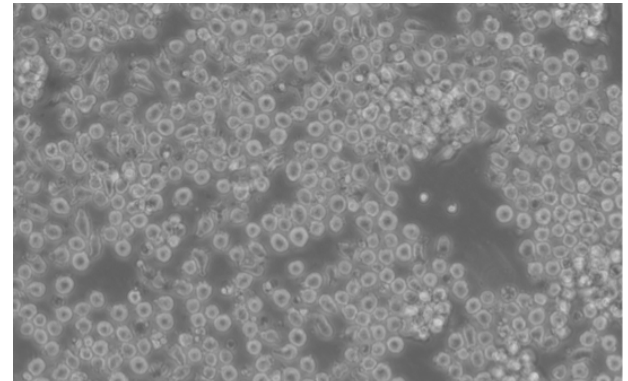
PRODUCT DATASHEET



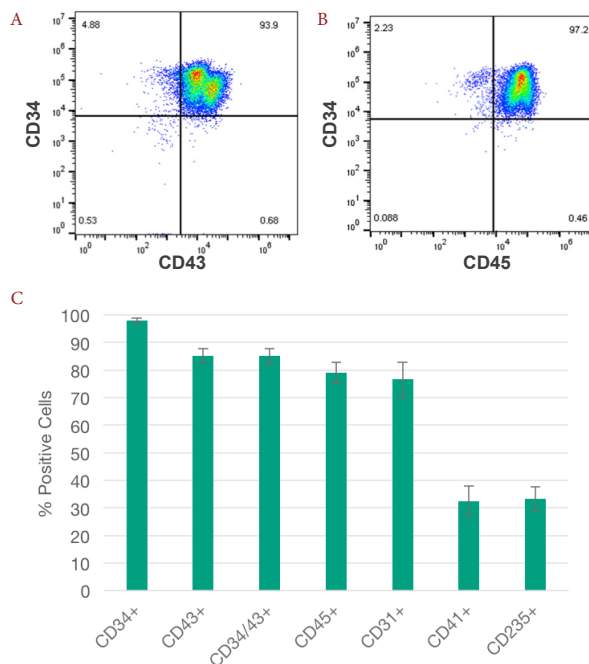
iCell® Hematopoietic Progenitor Cells 2.0

iCell® Hematopoietic Progenitor Cells 2.0 are highly pure multipotent progenitor cells with the ability to differentiate into blood cell lineages. These cells can be consistently generated from human induced pluripotent stem cells in large-scale quantities, thereby overcoming the high variability and limited quantities associated with primary CD34+ cord blood or peripheral blood cells.

iCell Hematopoietic Progenitor Cells 2.0 provide a reliable source of human cells suitable for use in targeted drug discovery, hematotoxicity testing, erythroid differentiation, myeloid lineage differentiation, and infectious disease studies.



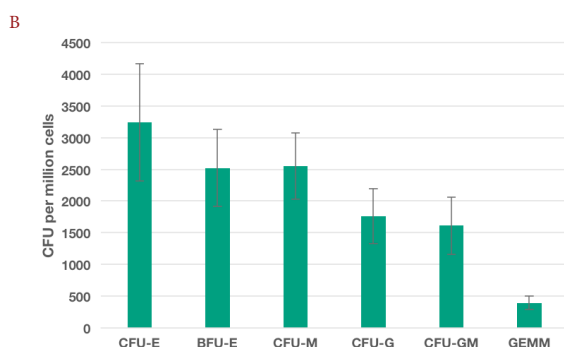
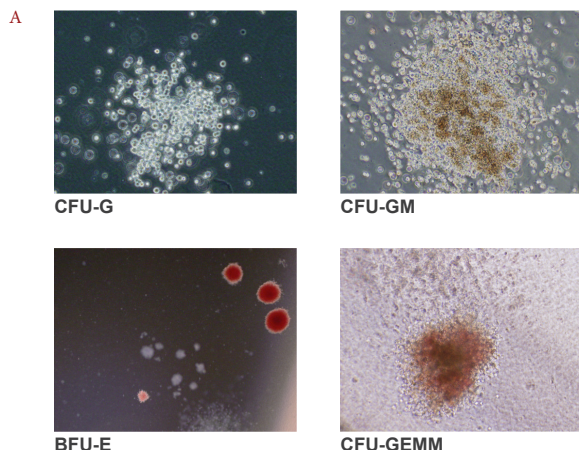
▲ **Figure 2: Morphology of iCell Hematopoietic Progenitor Cells 2.0:** Hematopoietic Progenitor Cells 2.0 display typical morphology as freely floating round cells.



▲ **Figure 1: iCell Hematopoietic Progenitor Cells 2.0 Reproducibly Express Hematopoietic Progenitor Cell Markers** (A, B) Cells analyzed by flow cytometry at thaw are >90%+ for hematopoietic cell surface markers. (C) Percentage of cells expressing hematopoietic cell surface markers after thaw. Data shown as mean ± SEM; n=13.

Advantages of iCell Hematopoietic Progenitor Cells

- **Reproducible results:** High purity (>80% CD34+/CD43+) and rigorous quality control ensure the same performance with every batch.
- **Rapid results:** Complete more studies in less time with ready-to-use iPSC-derived hematopoietic progenitor cells (HPCs).
- **Eliminate donor-to-donor variability:** iPSC-derived HPCs can be produced in essentially unlimited quantities from a single donor.



▲ Figure 3: iCell Hematopoietic Progenitor Cells 2.0 Reproducibly Generate Colonies of Multiple Lineages
iCell Hematopoietic Progenitor Cells 2.0 were plated in colony-forming unit (CFU) assays using a methylcellulose-based medium. (A) Representative images of colonies are shown. (B) CFU frequencies are shown, including erythroid (BFU-E), granulocyte/macrophage (CFU-M, CFU-G, CFU-GM) and mixed colonies (CFU-GEMM). Data shown as mean ± SEM; n=13.

Applications

iCell Hematopoietic Progenitor Cells 2.0 are amenable to use on multiple platforms to study a variety of cellular functions and assay endpoints including:

- Hematotoxicity
- Hematopoietic differentiation
- Hematopoietic regeneration
- Terminal cell functionality

For More Information

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Specifications

Cell Type	Hematopoietic progenitor cells
Organism	Human
Source	Differentiated from an FCDI reprogrammed human iPS cell line
Quantity	≥1.0 x 10 ⁶ viable cells
Shipped	Frozen

Ordering Information

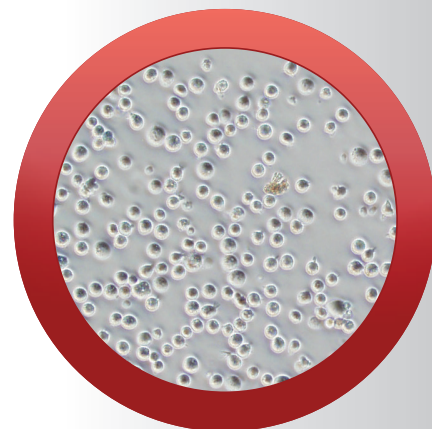
Item	Component(s)*	Catalog Number
iCell Hematopoietic Progenitor Cells 2.0 Kit, 01279	≥1.0 x 10 ⁶ viable cells	R1115

* A User's Guide is provided in each kit.

iCell Products

Provide access to biologically relevant, human iPS cells for disease modeling, drug discovery, toxicity testing, and regenerative medicine. FCDI's rapidly growing portfolio of iCell products includes human cardiomyocytes, GABAergic, glutamatergic, dopaminergic and motor neurons, hepatocytes, endothelial cells, astrocytes, hematopoietic progenitor cells, skeletal myoblasts, macrophages, and others.

Visit the FCDI website for the most current list of supported cell types.



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