

iPSC-derived Mesenchymal Stem Cells

REPROCELL offers a variety of ready-to-ship products to support Mesenchymal Stem Cell (MSC) research, including iPSC-derived cell lines (iPSCs), media, and other culture reagents. The RNA-iPSC-derived MSCs can be easily used for trilineage differentiation and exosome production to promote a variety of disease models for research. Compared to primary MSCs, iMSCs offer a more scalable, robust MSC source and access to gene editing through editing the iPSCs.

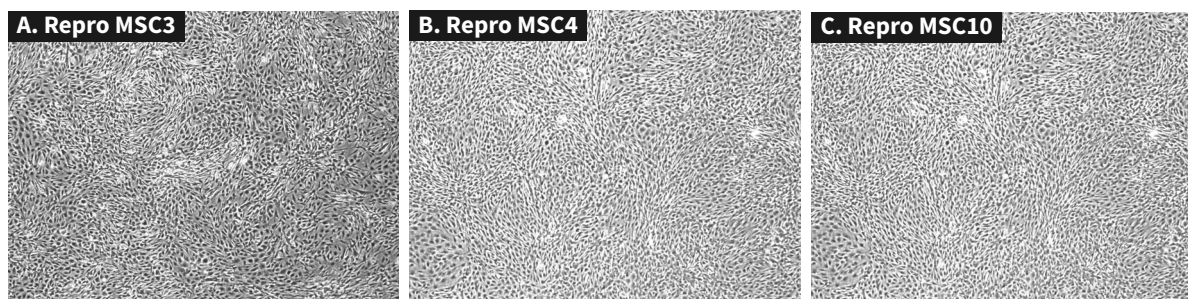


Figure 1. (A.) Repro MSC3 cells in MSC NutriStem medium (cat. No. 01-0006), (B.) Repro MSC4 cells and (C.) Repro MSC10 cells in MSC NutriStem medium, Phenol Red-free (cat. No. 01-0007), all at passage 8, showing morphology consistent with iPSC-derived MSCs.

REPROCELL’s Research MSC Lines: Repro MSCs

Repro MSCs are human iPSC-derived mesenchymal stem cell lines with minimal lot-to-lot variability that have the potential to differentiate into all 3 MSC lineages (adipocytes, chondrocytes and osteocytes). Repro MSC3 and Repro MSC4 are created from human iPSCs generated using REPROCELL’s StemRNA™ 3rd gen RNA reprogramming technology. Repro MSC10 MSCs are generated from one of our StemRNA™ Clinical Pilot lines, RPC-LLC-34-F3.

Product Name	Product Code	Strain ID	Donor Race	Donor Sex	Donor Age	Donor Clinical Status	iPSC Source Strain	Phenol Red-free?
Repro MSC3	RCRP025	RPChMSC003	Asian-Indian	Female	20	Healthy	RPChiPSSK003.2 (Cat No RCRP011N)	No
Repro MSC4	RCRP026	RPChMSC003	Asian-Indian	Female	20	Healthy	RPChiPSSK003.2 (Cat No RCRP011N)	Yes
Repro MSC10	RCRP038	ReproMSC10	Caucasian	Female	22	Healthy	RPC-LLC-34-F3	Yes

Quality control of Repro MSCs includes:

- Sterility, mycoplasma and viral pathogen testing
- G-band karyotyping
- Trilineage differentiation (Osteocytes, Adipocytes and Chondrocytes)
- Flow cytometry characterization (CD73+, CD90+, CD105+ and CD45-)

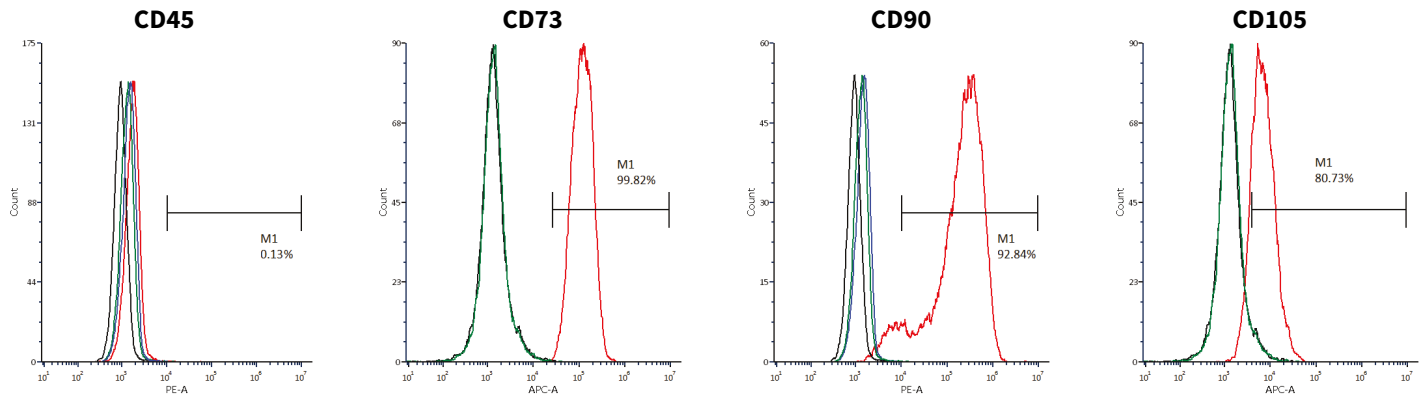


Figure 2. Repro MSC3 cells were cultured in MSC NutriStem XF Medium, Phenol Red-free (Cat. No. 01-0006) on NutriCoat™ Attachment Solution (Cat. No. 05-0063).

Note: These iMSC cell lines are developed for research use only. They are NOT suitable for use in clinical projects. MSCs for clinical use are also available. Please contact info-us@reprocell.com for more information.

Related Products Available From REPROCELL

Product Name	Product Code	Pack Size
Repro MSC3 iPSC-derived MSCs	RCRP025	1 vial (1×10^6 cells)
Repro MSC4 iPSC-derived MSCs (phenol red-free)*	RCRP026	1 vial (1×10^6 cells)
Repro MSC10 iPSC-derived MSCs (phenol red-free)*	RCRP038	1 vial (1×10^6 cells)
MSC NutriStem™ Medium	01-0006	500 mL
MSC NutriStem™ Medium (phenol red free)*	01-0007	500 mL
MSC NutriStem® XF Supplement Mix	05-0061	3 mL
NutriCoat™ Attachment Solution	05-0063	1.5 mL
StemRNA™ 3 rd Gen Reprogramming Kit	00-0076	1 kit

*Phenol red-free products are recommended for culturing Repro MSC4, Repro MSC10, or client iPSC-derived MSC lines to be used for exosome derivation.



REPROCELL BRANDS

