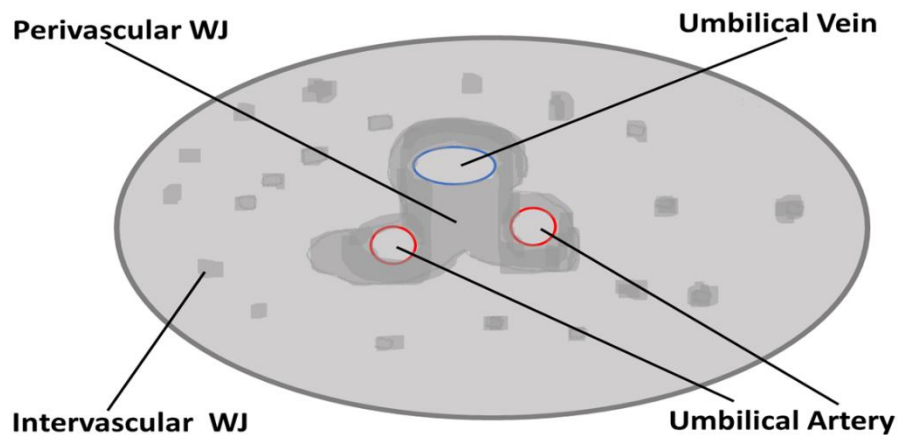
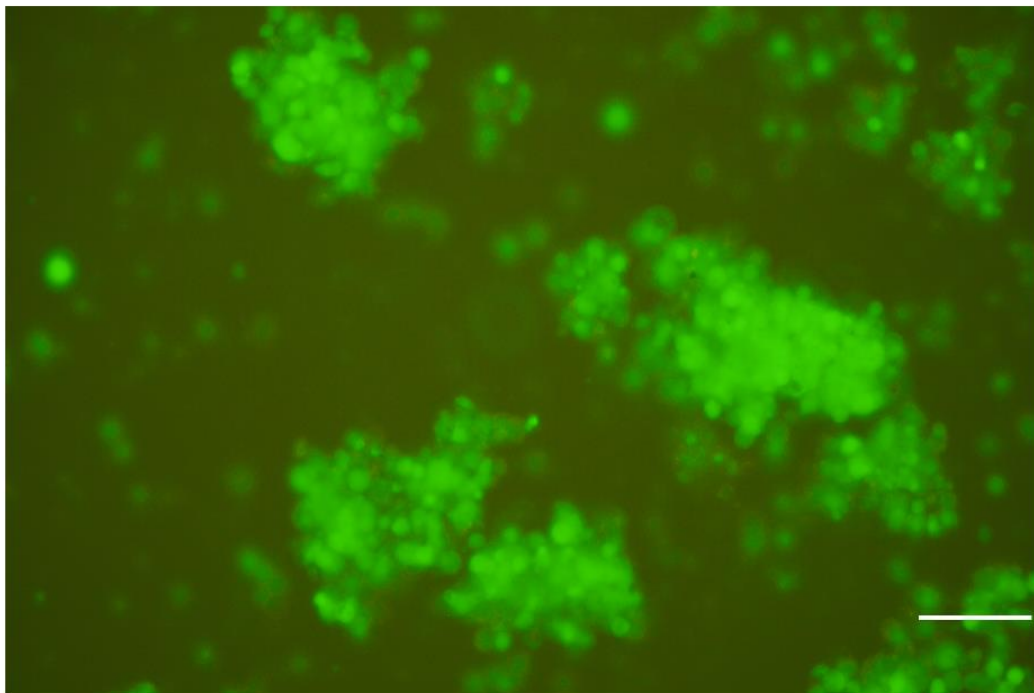


Schematic location of WJ: mainly surrounding umbilical vessels

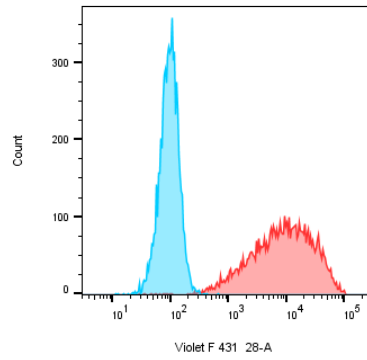


Supplemental Figure 1. Schematic location of WJ: Wharton's jelly is a gelatinous substance found within the umbilical cord, situated between the amniotic epithelium and the umbilical blood vessels.

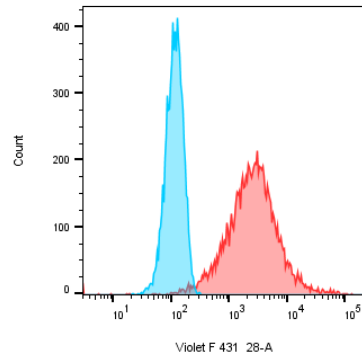


DU145

Supplemental Figure 2. DWJM cultured DU145 cells returning to 2D culture. After dissociation with collagenase and re-culturing in a flask, the PC cells spontaneously formed spheroids, with DU145 cells exhibiting a more distinct and pronounced spheroid formation. Star bar represents 100 μ m.

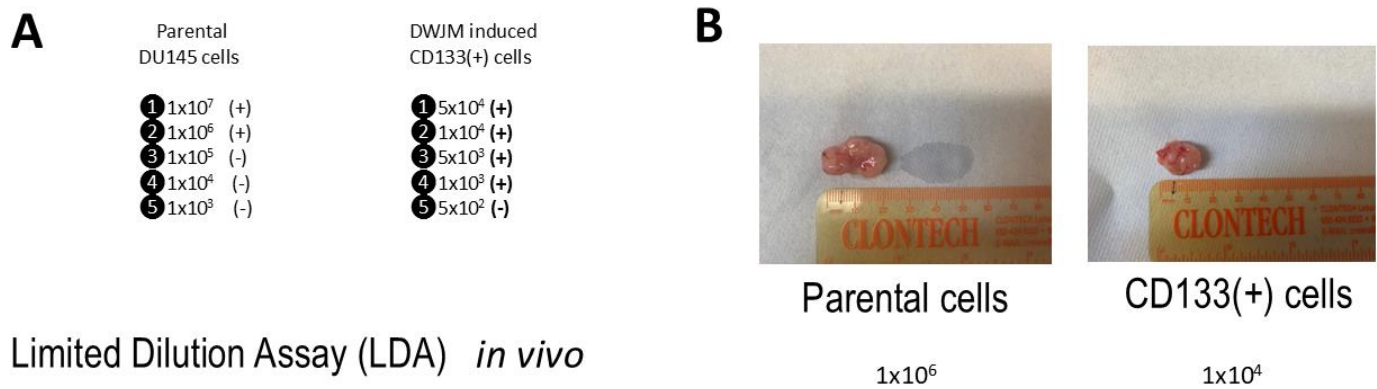


DU145

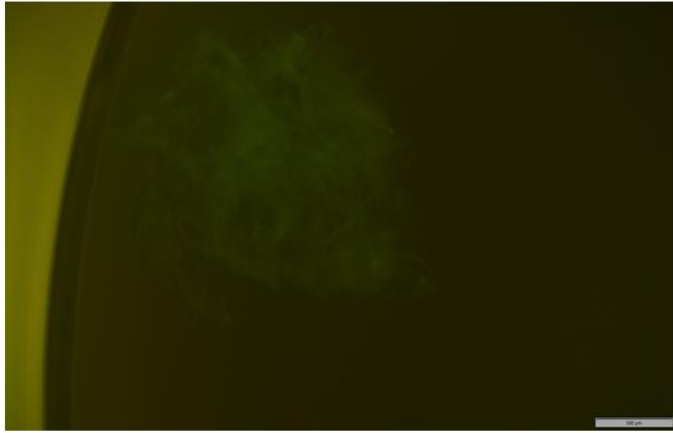


PC-3

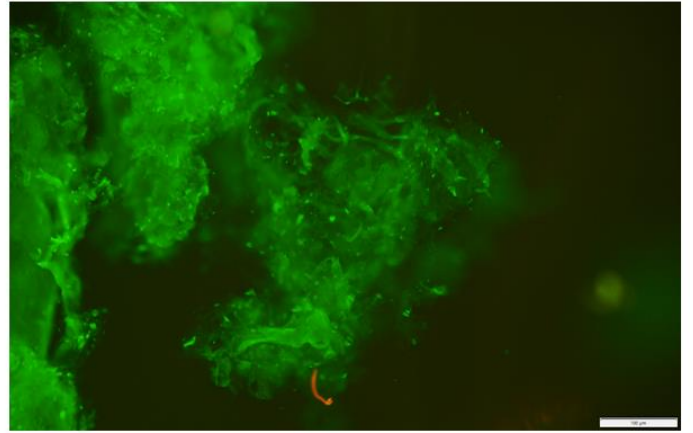
Supplemental Figure 3. Expression of EpCAM on DU145 and PC-3 cells. Flow cytometry (FCM) analysis revealed the expression of EpCAM on DU145 and PC-3 cells, with the blue and grey lines representing the isotype control and EpCAM-specific staining, respectively.



Supplemental Figure 4. Preliminary work of LDA in a small scale. (A) Preliminary *in vivo* LDA (limiting dilution assay) experiment determined that the minimum cell numbers required to form tumors in nude mice were 1×10^6 for parental DU145 cells and 1×10^3 for CD133(+) cells. **(B)** Tumors formed from 1×10^6 parental DU145 cells (left) and from 1×10^4 DWJM-induced CD133(+) cells (right) were dissected.



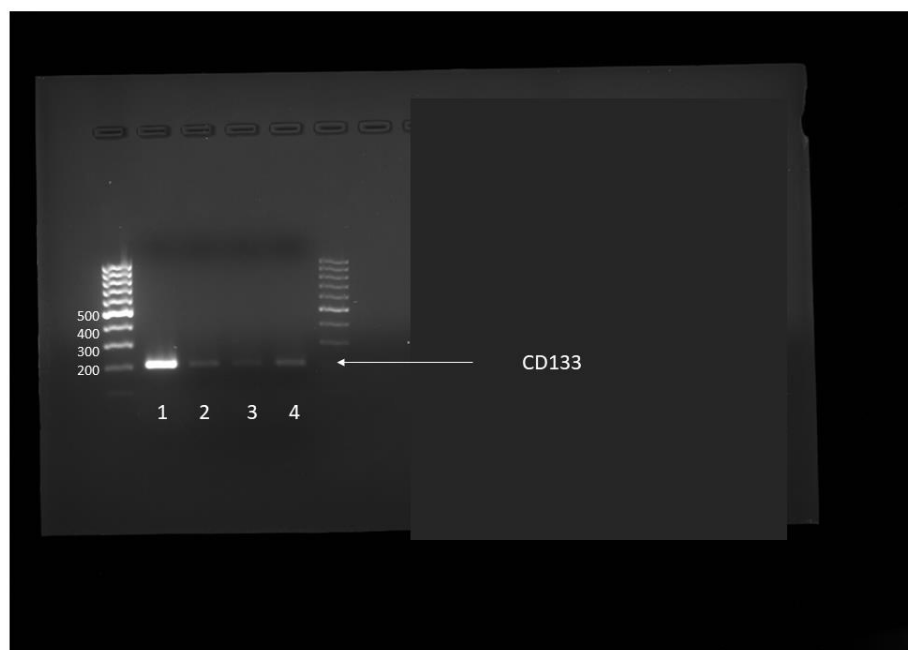
Negative Control



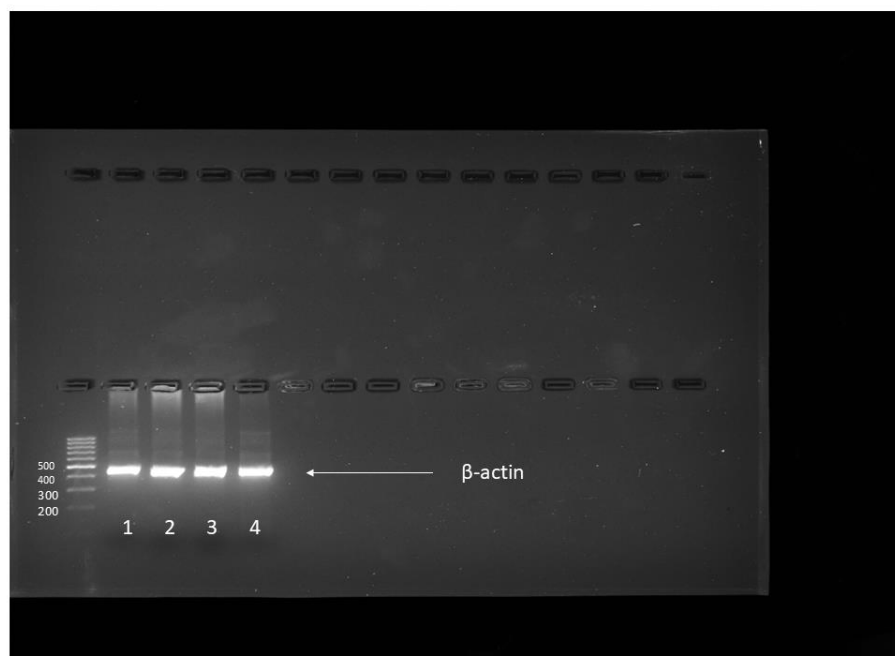
HA

Supplemental Figure 5. DWJM stained with hyaluronic acid (HA). DWJM was staining with rabbit anti human HA primary antibody, followed by anti-rabbit AF488 secondary antibody. For negative control, DWJM was only added anti-rabbit AF488 secondary antibody. Scale bar represents 100 μ m.

1. RB-1
2. DU-145
3. PC-3
4. HEL

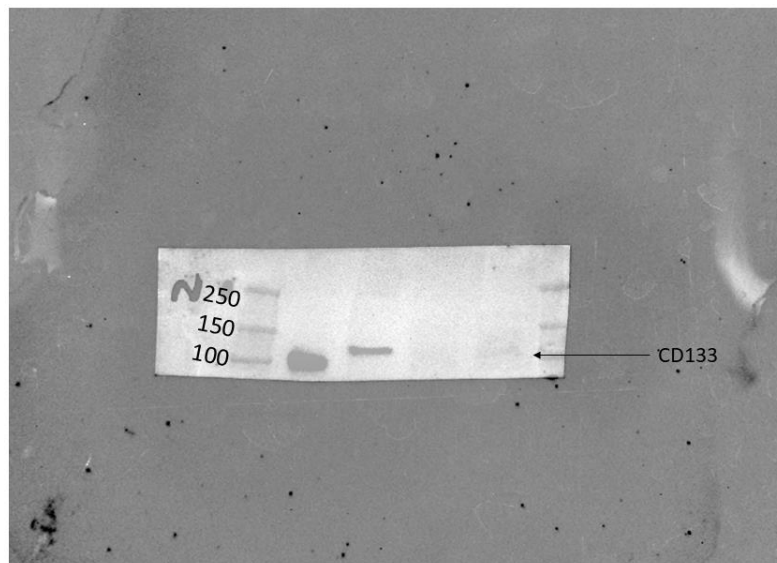


1. RB-1
2. DU-145
3. PC-3
4. HEL



Supplemental Figure 6. RT-PCR analysis of CD 133 in DU145 and PC-3 lines. WERI-Rb-1(RB-1) cell line was used as positive control in this experiment. HEL cell line was used as negative control.

- 1.Caco-2 cell lysate
(kindly provided by CST)
- 2.RB-1 cells
- 3.DU145
- 4.PC-3



- 1.Caco-2 cell lysate
(kindly provided by CST)
- 2.RB-1 cells
- 3.DU145
- 4.PC-3



Supplemental Figure 7. Western blot of CD 133 in DU145 and PC-3 lines. WERI-Rb-1(RB-1) cell line was used as positive control in this experiment. Besides,