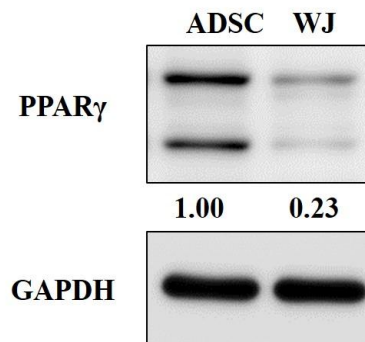


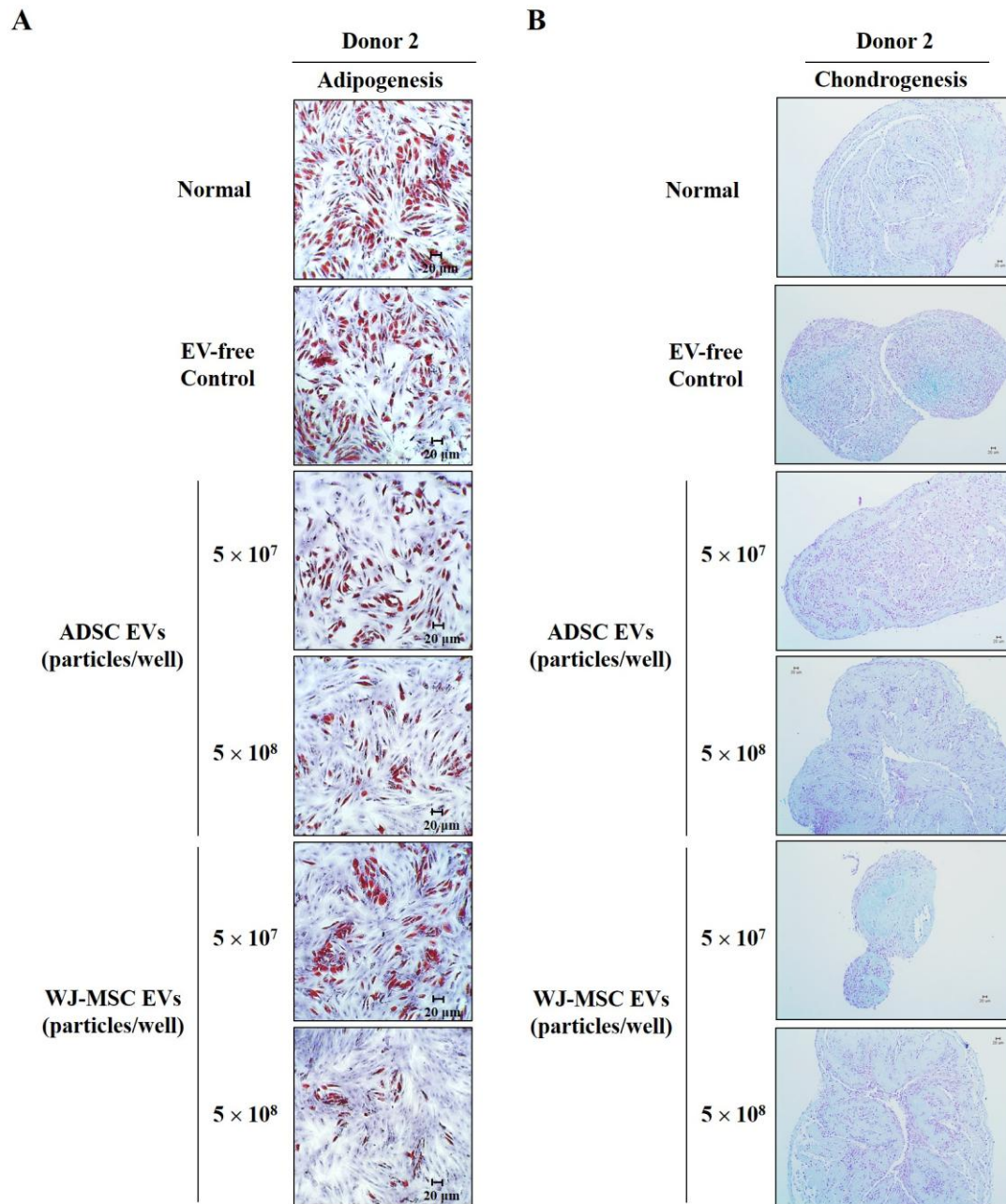
Supplementary information



Supplementary Fig. 1

Adipogenic capacity of mesenchymal stem cells from different tissue sources.

Two different tissue-derived mesenchymal stem cells, ADSCs and WJ-MSCs, were cultured in adipogenic differentiation medium for 14 days, and then the Western blot method was used to observe the amount of PPAR γ protein in ADSCs and WJ-MSCs. Further ImageJ analyses of the bands were performed to measure the protein expression levels. The ratios of PPAR γ protein expression was normalized to GAPDH.



Supplementary Fig. 2

The second donor's adipogenic differentiation and chondrogenic differentiation experiments. **A** On days 14, lipid accumulation during adipogenic induction was monitored by Oil Red O staining. Hematoxylin-stained cell nuclei were stained purplish blue. **B** Cells were cultured in chondrogenic differentiation medium for 21 days. Tissue sections were stained and observed by microscopy, followed by Alcian blue staining.