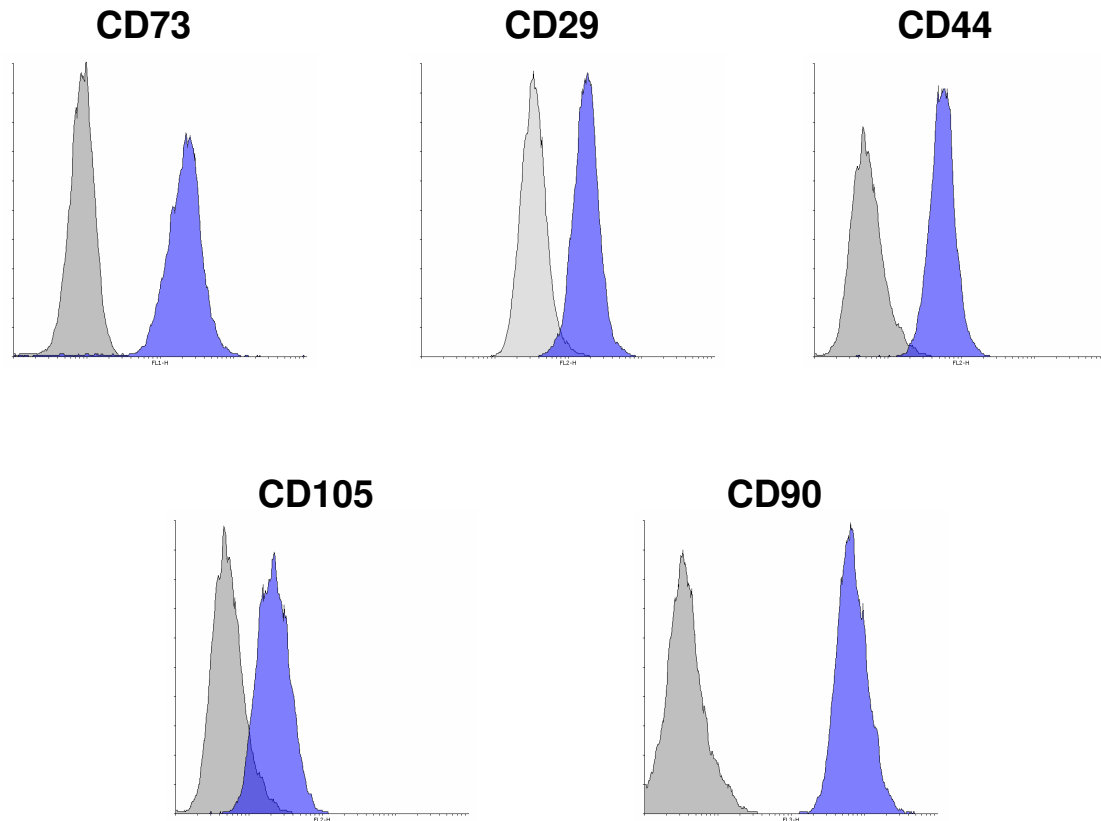


Supplementary information



Immunophenotypical characterization of human ADSC. Expression of characteristic positive markers of multipotential mesenchymal cells was examined by flow cytometry. Histograms show the fluorescence intensity of cells immunoreacted for CD73, CD44, CD105, CD29 or CD90 (blue filled histograms) compared to their respective isotype controls (grey filled histograms), demonstrating that the ADSCs were positive for all these markers.

Methods: the cells were detached from flasks with trypsin, fixed in 2 % buffered paraformaldehyde, rinsed in PBS, blocked in 5% normal goat serum and reacted with primary antibodies for 90 min. Appropriate secondary antibodies were reacted for 30 min. Mouse anti-CD90 was directly conjugated to phycoerythrin, rabbit anti-CD73 was detected with anti-mouse IgG conjugated to Alexa 488, mouse anti-CD44 and anti CD105 were detected with anti-mouse IgG conjugated to Alexa 568 and rat anti-CD29 was detected with anti-rat IgG conjugated to Alexa 568. Cell analysis was performed with a FACSCalibur flow cytometer.