



Supplementary Figure S4. Multi-lineage differentiation capacity of endosialin⁺ cells *in vitro*. (A) Schematic of the experimental procedure used to induce multi-lineage differentiation. (B–D) Representative images showing the potential of endosialin⁺ cells to differentiate into adipocytes (Oil Red O), osteocytes (Alizarin Red S) and chondrocytes (Alcian blue) (n = 3). The scale bars denote 50 μ m. (E) Quantitative RT-PCR analysis was used to detect the adipogenic markers FABP4 and PPAR γ , the osteogenic markers ALP and RUNX2 and the chondrogenic markers COL2A1 and ACAN in undifferentiated and DIFF. The data are expressed as the mean \pm SEM (n = 3). **P < 0.001, ***P < 0.001. ACAN, aggrecan; ALP, alkaline phosphatase; COL2A1, collagen type 2 alpha 1 chain; DIFF, differentiated endosialin⁺ cells; FABP4, fatty acid-binding protein 4; PPAR γ , peroxisome proliferator-activated receptor- γ ; RUNX2, runt-related transcription factor 2; UNDIFF, undifferentiated endosialin⁺ cells.