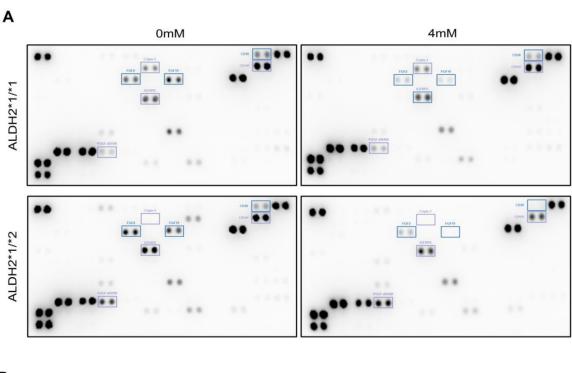
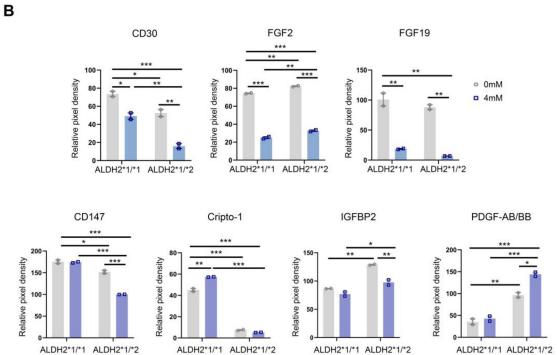


**Supplementary Fig. S1.** Characterization of additional hiPSC lines with ALDH2\*1/\*1-hiPSCs and ALDH2\*1/\*2-hiPSCs genotypes. (A) Brightfield microscope images and alkaline phosphatase (AP) staining. Scale bar=200  $\mu$ m. (B) Immunocytochemical staining for pluripotency markers OCT4, SOX2, KLF4, TRA-1-60, TRA-1-81, and SSEA4. Scale bar=100  $\mu$ m. ALDH2: acetaldehyde dehydrogenase 2.





**Supplementary Fig. S2.** Cytokine analysis of ALDH2\*1/\*1- and ALDH2\*1/\*2-OBs treated with acetaldehyde. (A) Human cytokine array images of ALDH2\*1/\*1- and ALDH2\*1/\*2-OBs conditioning medium. (B) Quantification of mean spot pixel density. Data are presented as the mean $\pm$ SEM. \*p<0.05, \*\*p<0.01, \*\*\*p<0.001 (two-way ANOVA) indicate statistical significance. ALDH2: acetaldehyde dehydrogenase 2, OBs: osteoblasts.