

SUPPLEMENTARY FIGURES

Figure S1 (A-C) Suppl to Fig. 1

Figure S1 (A) Antibody validation anti-PIEZO1

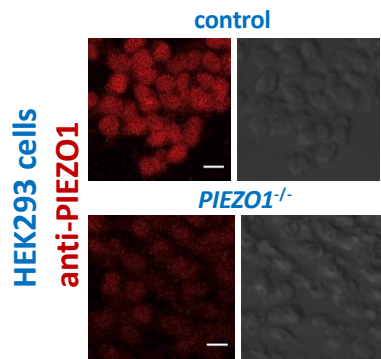


Figure S1 (B) Region-of-interest (ROI) method in chondrocytes

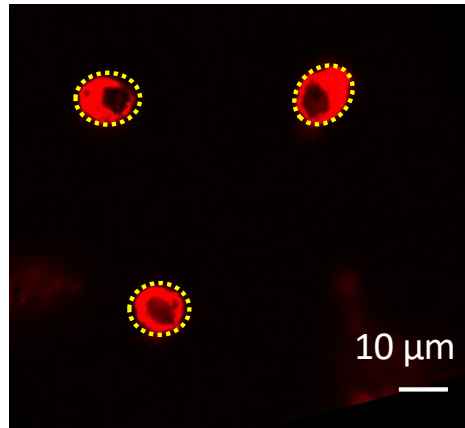


Figure S1 (C) Suppl to Fig. 1 subpanel 1C – full blot anti-PIEZO1

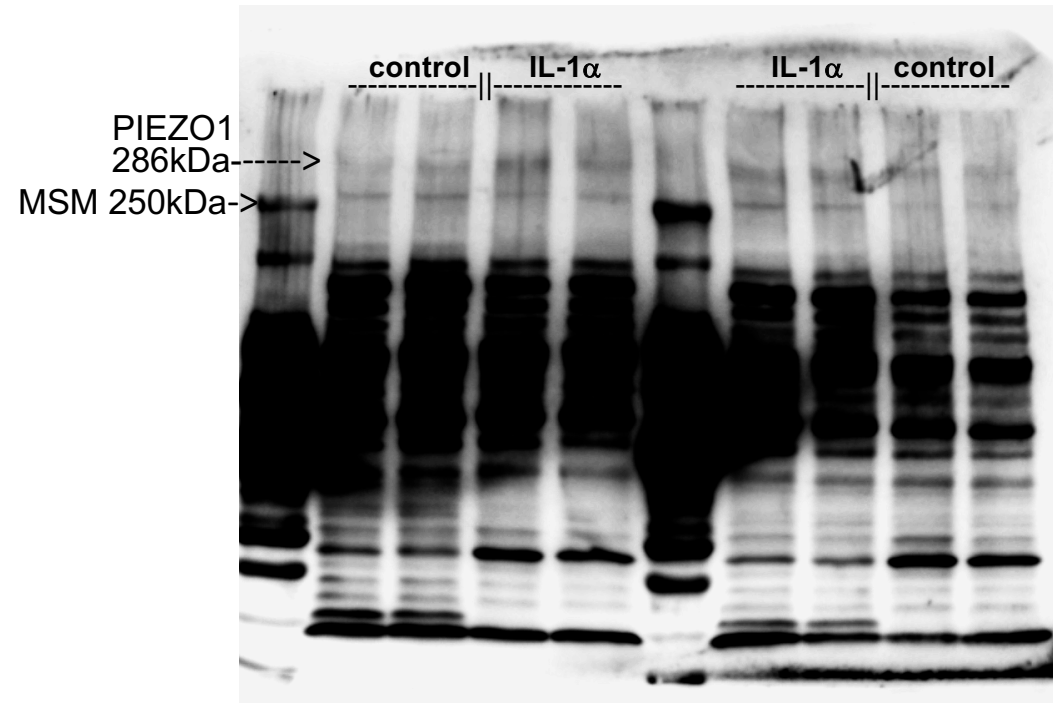
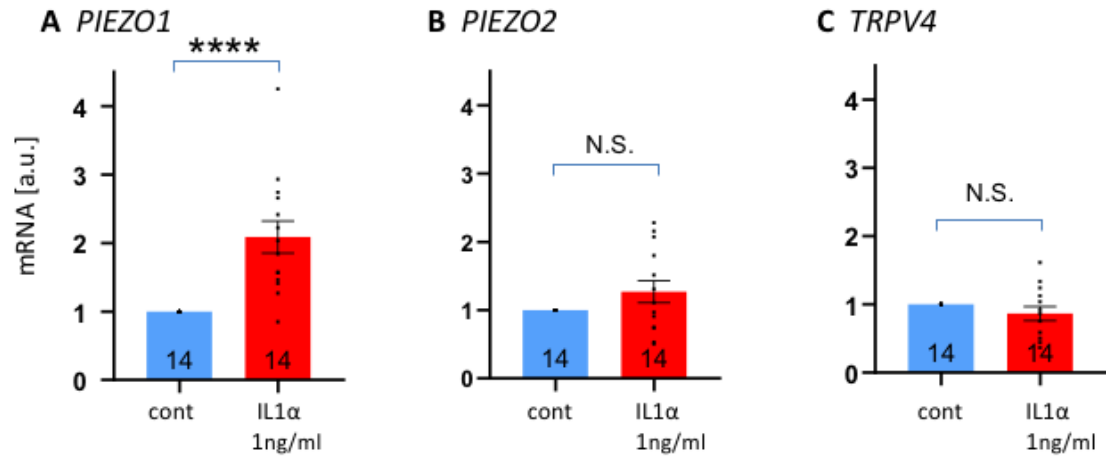


Figure S2 mRNA abundance of *PIEZO1*, *PIEZO2* and *TRPV4* in primary porcine chondrocytes



D - Fig. 2 (main manuscript), subpanels D, F, H with data points

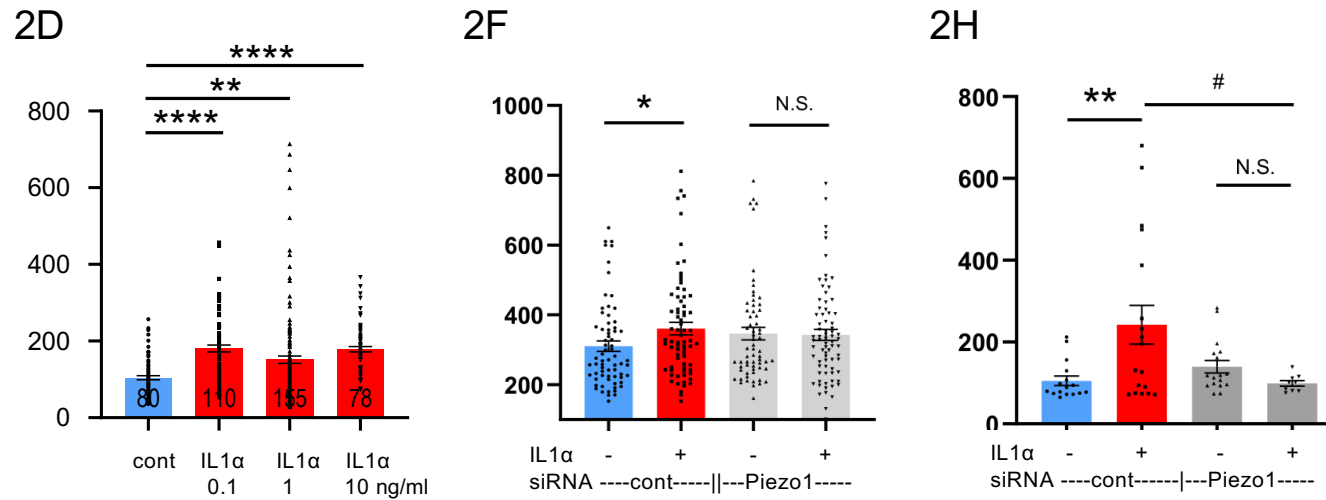


Figure S3 Knock-down *PIEZO1* mRNA using siRNA – demonstration of effectiveness without (A) and with IL1a (B)

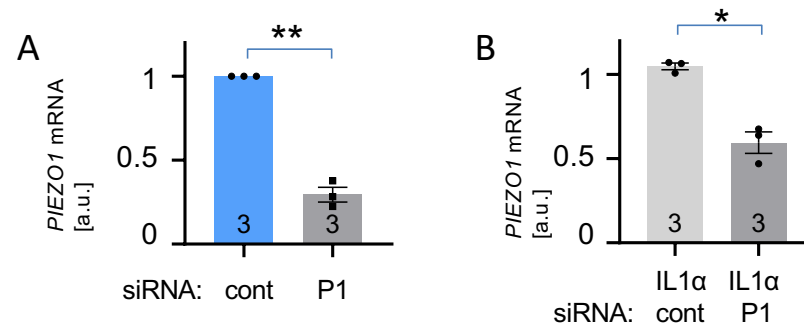
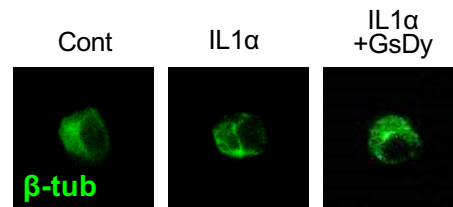


Figure S4 Rarefied F-actin cytoskeleton in IL-1 α -exposed porcine articular chondrocytes – Supplementary Fig to illustrate β -tubulin. (A) Representative confocal fluorescent micrographs of porcine articular chondrocytes; cytoskeleton labeled for β -tubulin (green). (B) Quantitation of fluorescence intensity of β -tubulin labeling, note absence of significant changes. Numbers indicate number of cells.

A Porcine chondrocytes



B

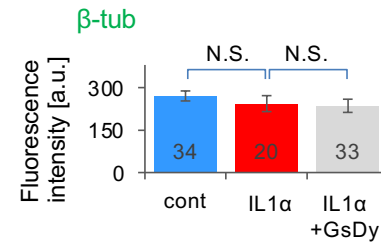


Figure S5 β -actin and p38 expression in primary articular porcine chondrocytes. (A) Equal level of protein expression of β -actin in porcine articular chondrocytes exposed to IL-1a or control. Quantitation of 4 independent experiments, densitometry of Western blotting bands, equal amount total protein loaded from primary chondrocyte cultures. (B) mRNA for β -actin is not decreased in porcine articular chondrocytes exposed to IL-1a, it is rather elevated. Quantitation of 4 independent experiments, RT-qPCR, normalized for 18S RNA. * $p < 0.05$, t-test. Numbers in bars indicate independent chondrocyte isolations.

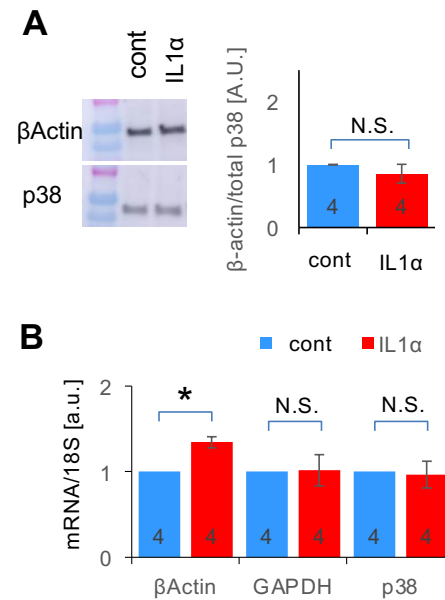


Figure S6 MULAN predicted binding sites *PIEZO1*

