

Polycystin-2 is required for chondrocyte mechanotransduction and traffics to the primary cilium in response to mechanical stimulation

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Supplementary figures

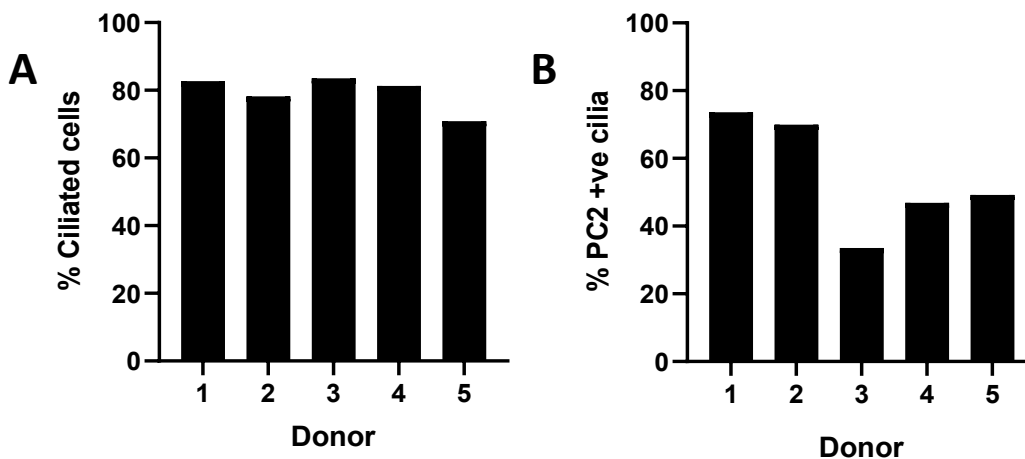


Figure S1: Donor variability in Polycystin-2 localisation

Freshly isolated bovine articular chondrocytes were cultured on glass coverslips until confluence. Chondrocytes were immuno-labelled for polycystin-2 (PC2), primary cilia were labelled for acetylated tubulin and nuclei were counterstained with DAPI. Both the proportion of (A) ciliated cells and (B) PC2 positive cilia was quantified.

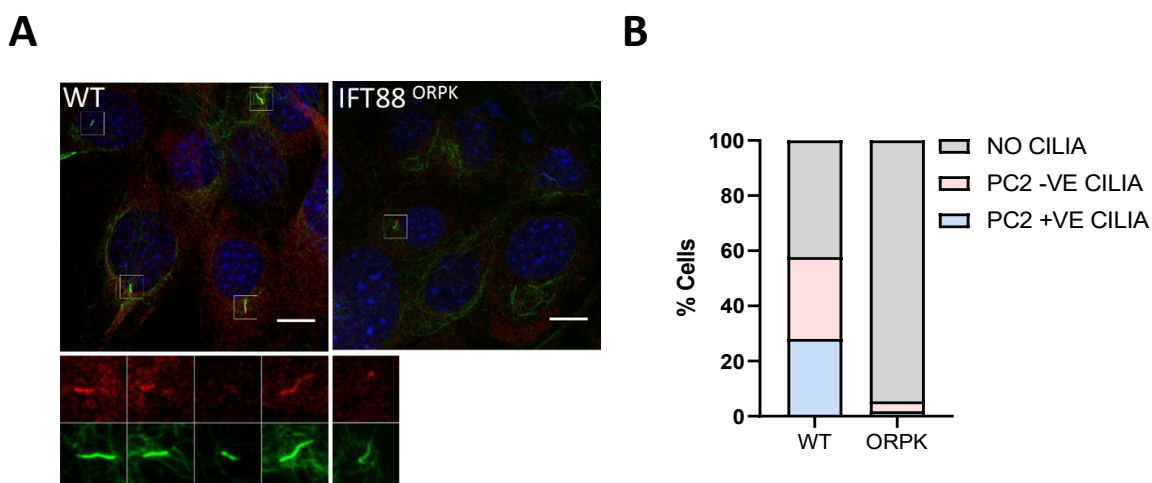


Figure S2: Polycystin-2 localises to the cilium in WT and ORPK chondrocytes

(A) Immortalised murine chondrocytes (WT and IFT88^{ORPK} mutant) were labelled for PC2 (red), acetylated tubulin (green) and nuclei counterstained with DAPI (Blue). Scale bar 5µm. The proportion of ciliated cells and PC2 positive cilia was determined (n>100 cilia).