

Supplementary Figures and Figure Legends

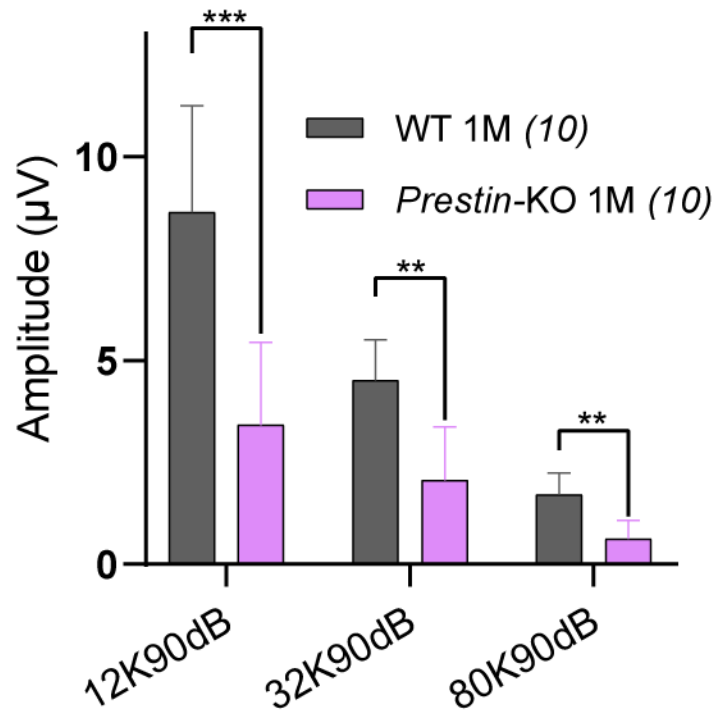


Fig. S1 Disrupted mABR signals in *Prestin*-knockout mice. The mABR wave I amplitudes in WT mice and *Prestin*-KO mice at 1 month (1M). Mann-Whitney test, 12 kHz, *** $P = 0.0005$; 32 kHz, ** $P = 0.0021$; 80 kHz, ** $P = 0.002$; error bars, SD. N numbers are shown in panels.

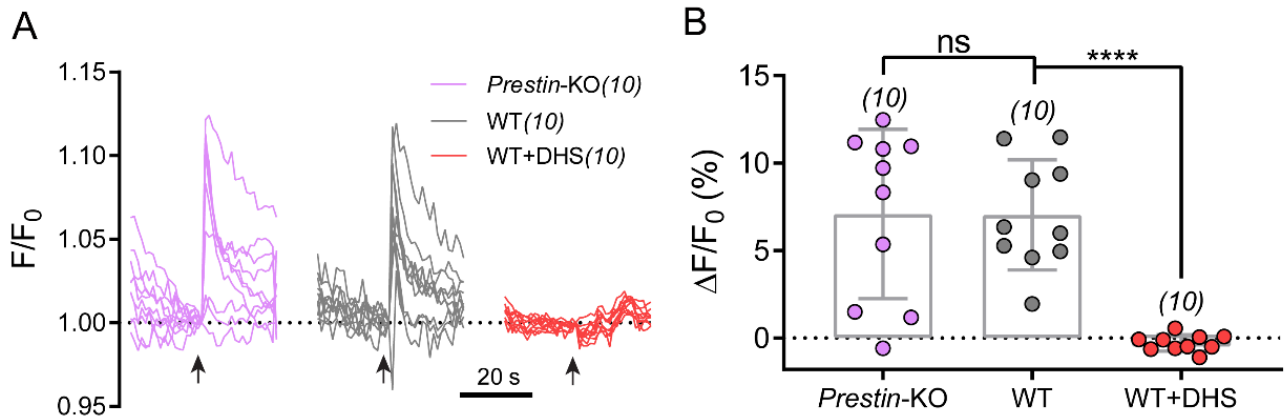


Fig. S2 Hair-bundle mechanotransduction is preserved in *Prestin*-knockout mice. **A** Fluid-jet stimulation-evoked Ca^{2+} responses of OHCs in cochlea preparations from control mice (grey) and *Prestin*-KO mice (purple) and WT hemicochleae treated with 100 $\mu\text{mol/L}$ dihydrostreptomycin (WT+DHS, red). Arrows indicate fluid-jet stimulation. The images were collected at 2-s interval. **B** Quantification of the peak Ca^{2+} responses of OHCs calculated from recordings in (A). Brown-Forsythe ANOVA test, *Prestin*-KO vs WT, $P = 0.9994$; WT vs WT+DHS, **** $P < 0.0001$; error bars, SD. N numbers are shown in panels.