c-fos induction assay after pure tone stimulation

A c-fos induction assay after pure tone stimulation was performed as described by Karmarkar et al. Briefly, mice were killed in an anesthetic chamber (ENV-1202, Med Associates) for 3 hours after exposure to 16 kHz and 8 kHz for 60 seconds each. The brains were removed and processed as described. Results were compared by ANOVA followed by Tukey’s post hoc test. Significance was calulated as follows: *P < 0.05, **P < 0.01, ***P < 0.001.

Results

Figure 2: Representative ABCs from the cochlea of ephrin-A3 mutant mice. (A) The expression levels of c-fos in the CN were determined by RNAscope® in situ hybridization using an ABC-based staining protocol and pre-clustered unconjugated human-IgG-Fc. (B) Ephrin-A3 null ANFs were detected with RNAscope® in situ hybridization using ABC-based staining protocol and pre-clustered unconjugated human-IgG-Fc. (C) Ephrin-A3 null ANFs were detected using ABC-based staining protocol and pre-clustered unconjugated human-IgG-Fc. (D) Ephrin-A3 null ANFs were detected using ABC-based staining protocol and pre-clustered unconjugated human-IgG-Fc.