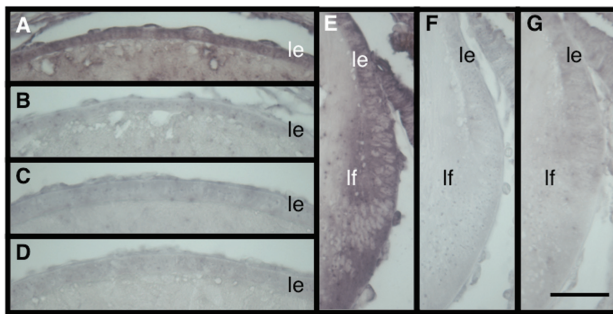


Sprouty Is a Negative Regulator of Transforming Growth Factor β -Induced Epithelial-to-Mesenchymal Transition and Cataract

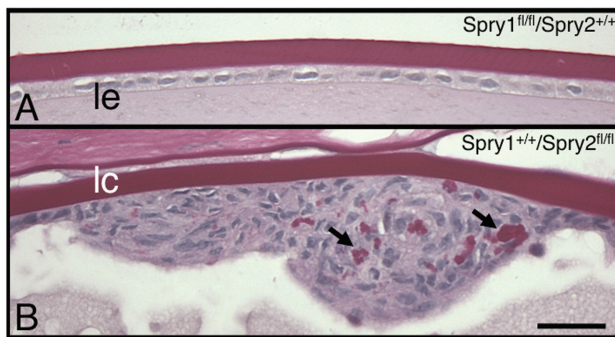
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Supplementary Figure S1. Expression of *Spry1* and *Spry2* transcripts in the neonatal mouse lens. Representative micrographs of in situ hybridization labeling for *Spry1* mRNA (A-D) or *Spry2* mRNA (E-G) using antisense (A,C,E,G) or sense (B,D,F) digoxigenin-labelled riboprobes, on wild-type (WT) lenses (A,B,E,F) or transgenic lenses deficient for *Spry1* and *Spry2* (*Spry1^{fl/fl}/Spry2^{fl/fl}*) (C, D,G, using *Le-Cre*). Abbreviations: le, lens epithelium; lf, lens fibers. Scale bar; 50 μ m.



Supplementary Figure S2. Histological differences between *Spry1*- and *Spry2*-deficient murine lenses. Representative histological sections of postnatal-d80 mouse lenses deficient for either all alleles of *Spry1* (*Spry1^{fl/fl}/Spry2^{+/+}*, A) or all alleles of *Spry2* (*Spry1^{+/+}/Spry2^{fl/fl}*, B) using *MLR10-Cre*, stained with Periodic-Acid Schiff reagent. In *Spry1*-deficient lenses (A), the normal anterior monolayer of central lens epithelial cells (le) is maintained, whereas in *Spry2*-deficient lenses (B), it becomes multilayered with the more posterior cells acquiring a spindle-shaped morphology as they deposit PAS-reactive ECM (arrows) to form an anterior subcapsular plaque. Scale bar; 30 μ m.