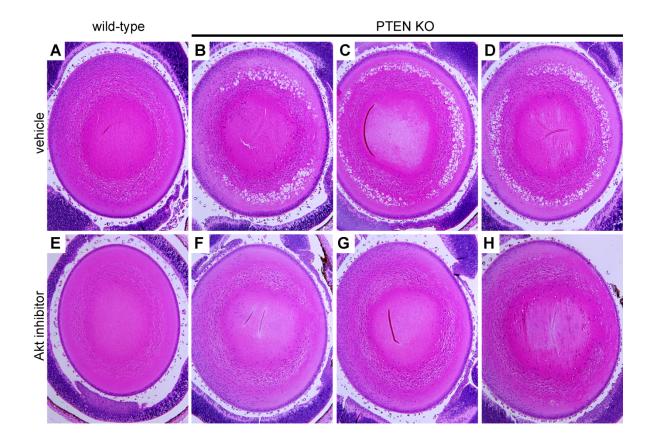
Supplemental material



Supplemental Figure S1. Histological abnormalities in PTEN KO lenses can be partially alleviated by Akt inhibitor treatment. Pregnant females were injected with vehicle, or an Akt inhibitor dissolved in 2% DMSO at 1 mg/kg/d on E16.5, E17.5, and E18.5. P0 lenses were dissected, fixed, sectioned and stained with hematoxylin and eosin. Coronal sections of wild-type lenses from vehicle treated mothers appeared normal (A). PTEN KO lenses from vehicle injected mothers developed extensive equatorial vacuoles (B-D, 100%, n = 8). Wild-type lenses from P0 animals treated with the Akt inhibitor also appeared normal (E). Lenses of PTEN KO neonates from Akt inhibitor treated mothers either displayed a substantial reduction in vacuole formation (F-H, 56%, n = 9), or, developed vacuoles to a similar extent as vehicle treated controls (not shown, 44%, n = 7). Scale bar = 50 μm.