Supplemental Figure 1: 3-D stacks of images from CMTF scans collected using the HRT-RCM, before and after transcorneal freeze injury. Contrast was enhanced digitally to allow better visualization of cellular patterning. **A.** Preoperative scan. **B.** 3 days after FI. **C.** 7 days after FI. **D.** 28 days after FI. The top row shows 3-D reconstructions of the confocal z-stack. a-d show select *en face* images from each stack.
Supplemental Figure 2: Confocal image collected *in situ* from a cornea labeled with phalloidin, 3 days after transcorneal freeze injury. Fibroblastic endothelial cells were detected on the posterior surface of the cornea, as indicated by a loss of cortical f-actin and expression of intracellular stress fibers.
Supplemental Figure 3: 3-D stacks of images from CMTF scans collected using the HRT-RCM, before and after transcorneal freeze injury. A thin PMMA washer was applied to the tip of the Tomocap to reduce reflection and allow superficial epithelial imaging. A. Preoperative scan. B. 3 days after FI. C. 7 days after FI. D. 28 days after FI. The top row shows 3-D reconstructions of the confocal z-stack. a-d show select en face images from each stack. Cellular patterning and backscattering was similar to what was observed without the PMMA washer.