Supplementary Figure 2. Orientation and direction selectivity signal in light-reared and dark-reared juvenile ferrets. Panels (a) and (b) show orientation signals (scaled to ± 0.0015 difference of $\Delta R/R$) and panels (c) and (d) show direction signals (scaled to ± 0.0010 difference of $\Delta R/R$); panels (a) and (c) are from a 43 day-old light-reared ferret and panels (b) and (d) are from a 37 day-old dark-reared ferret. In each panel, the left most column shows difference images that report orientation or direction selectivity; the right two columns show single-condition images that indicate cortical responsiveness. Stimulus icons in each panel indicate the orientation or direction of the grating stimulus that was used. Note the absence of differential direction selectivity signal in the dark-reared ferrets, despite intense cortical activation with unidirectional stimuli. Scale bar=2 mm.