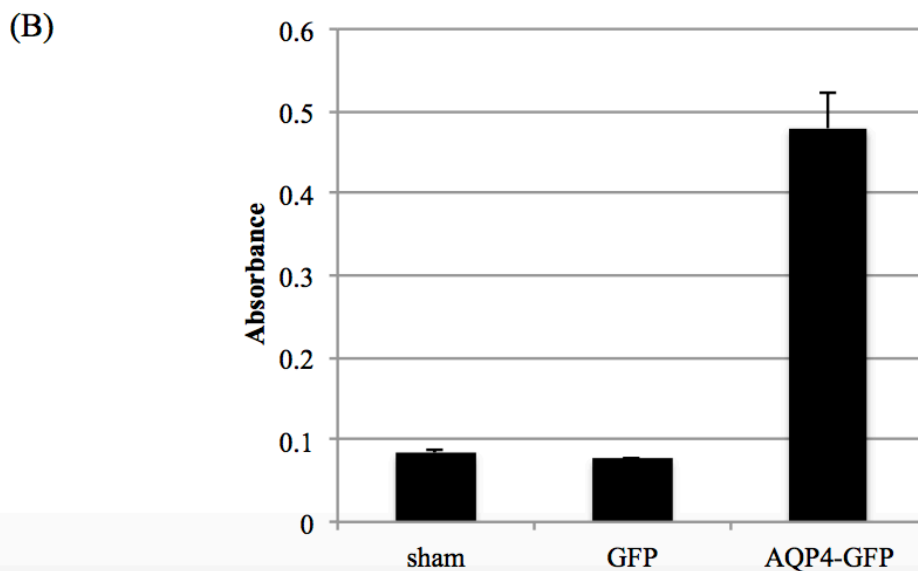
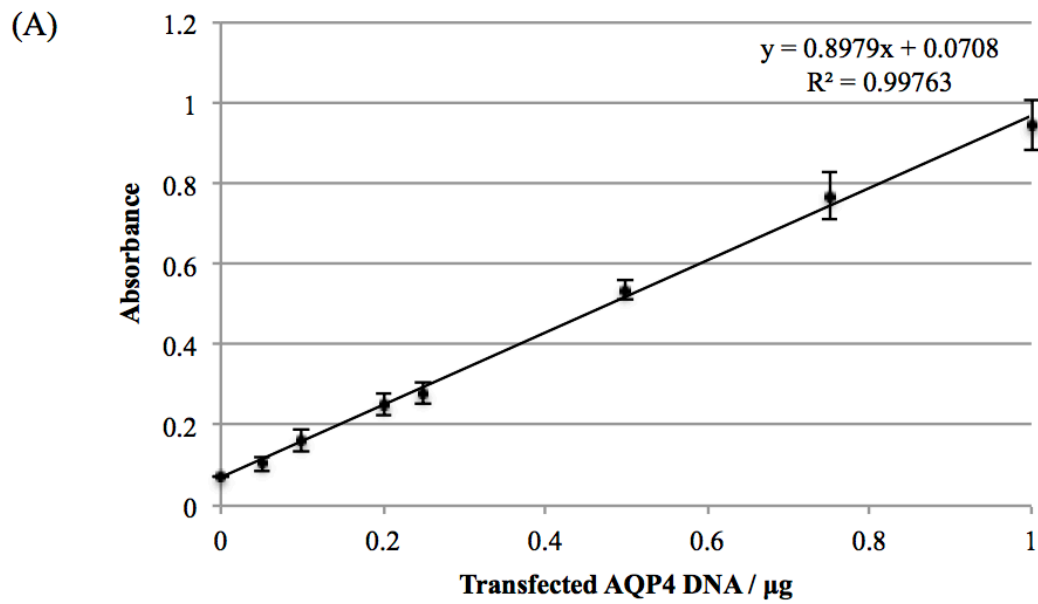


Validation of anti-AQP4 antibody:



Supplementary Figure 1 (A) Linearity of surface expression signal of AQP4-GFP transfected into HEK293 cells as a function of antibody specificity to the amount transfected AQP4 cDNA. (B) Surface expression signal, detected using an anti-GFP antibody, from HEK293 cells transfected with either AQP4-GFP or GFP alone, demonstrating specificity for surface-localized protein. Data is represented as mean \pm SEM, $n=3$.

Linearity of the assay was confirmed by measuring the surface expression signal of HEK293 cells transfected with varying amounts (0-1 μg) of AQP4 cDNA / 15 mm cell culture well. Specificity for surface localized protein was confirmed by measuring the surface expression signal from HEK293 cells transfected with either AQP4-GFP or GFP alone, using an anti-GFP primary antibody. GFP alone should reside in the cytoplasm and give no surface signal, whereas GFP should be detected in the AQP4-GFP sample due to being covalently bound to the surface AQP4.