

## SUPPLEMENTARY FIGURE LEGENDS

**Figure S1. RII overlay of lens fractions.** Autoradiographs following  $^{32}\text{P}$ -RII overlay of sheep lens fractions. The left-hand panel shows overlay of total sheep lens homogenate (lane 1), and core (lane 2) and cortical (lane 3) fractions. The right-hand panel shows overlay of cortex subfractionated into supernatant (lane 4) and pellet (lane 5). Pelleted cortical membranes were incubated with 1 M NaCl. RII overlay of supernatant (lane 6) and pellet (lane 7) fractions following 1 M NaCl extraction are shown.

**Figure S2. PKA – AKAP2 co-distribution. (A-D)** Immunohistochemistry of equatorial mouse lens sections stained with anti-AKAP2 antibody (**A**, colored red in **C**), anti-PKA RII antibody (**B**, colored green in **C**) and DRAQ5 (colored blue in **C**). Axial sections stained with anti-AKAP2 antibody (**D**, colored red in **F**), anti-PKA C antibody (**E**, colored green in **F**) and DRAQ5 (colored blue in **F**).

**Figure S3. Immunohistochemistry of AKAP2 and AQP0.** Equatorially sectioned mouse lenses were stained with anti-AKAP2 antibody (**A**, colored red in **D**), anti-AQP0 antibody (**B**, colored green in **D**) and DRAQ5 (**C**, colored blue in **D**).

**Figure S4. Sequence alignment of AQP0 CaM-binding site.** The position of the major PKA phosphorylation site at Ser235 is indicated.

# RII Overlay

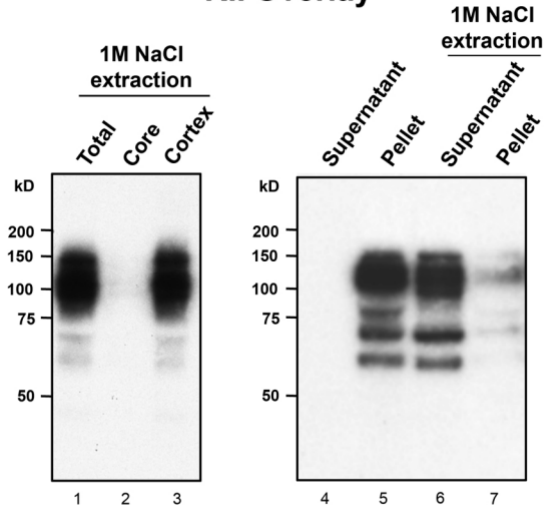
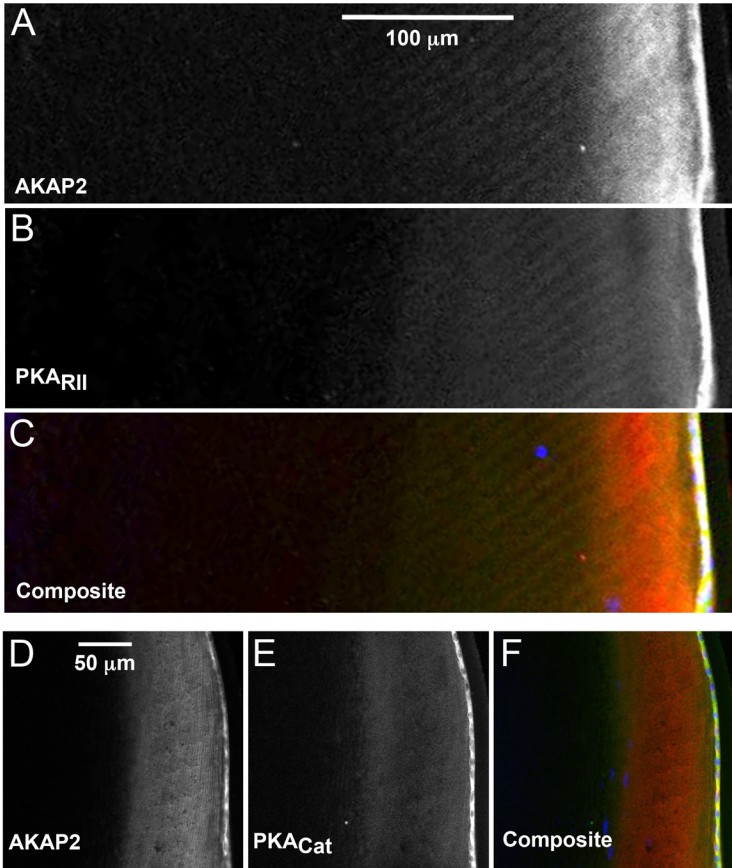
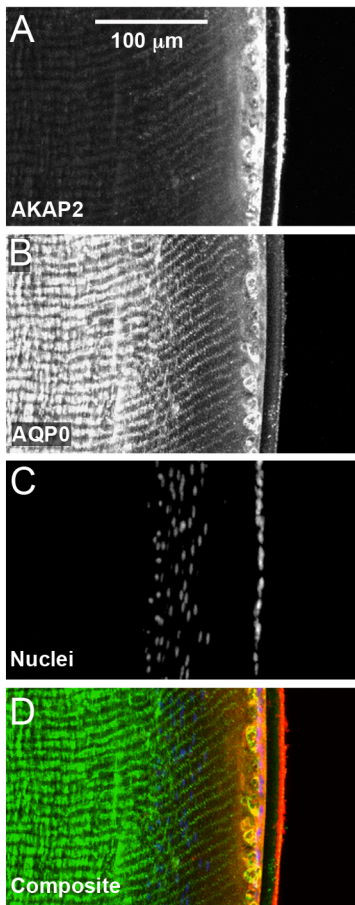


Figure S1: Gold & Reichow et al. 2011



**Figure S2: Gold & Reichow et al. 2011**



**Figure S3: Gold & Reichow et al. 2011**

# AQP0 C-terminal sequence

		230				240												
Homo sapiens	P	R	L	K	S	I	S	E	R	L	S	V	L	K	G	A	K	P
Bos taurus	P	R	L	K	S	V	S	E	R	L	S	I	L	K	G	S	R	P
Mus musculus	P	R	L	K	S	V	S	E	R	L	S	I	L	K	G	A	R	P
Ovis aries	P	R	L	K	S	V	S	E	R	L	S	I	L	K	G	T	R	P
Xenopus laevis	P	R	M	R	G	L	N	E	R	L	S	I	L	K	G	A	R	P
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	CaM-binding site																	

Figure S4: Gold & Reichow et al. 2011