

Supplementary Materials: AQP2 Plasma Membrane Diffusion Is Altered by the Degree of AQP2-S256 Phosphorylation

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Table S1. Plasmids used in this study.

Plasmids	Description ^a	Reference
pEGFP-AQP2*	AQP2 ^{I54T} with a C-terminal c-Myc tag in pEGFP-C1. EGFP fused to the N-terminus of AQP2 ^{I54T} that has a C-terminal c-Myc tag, Km ^r .	[37]
pcDNA1-AQP2*	AQP2 ^{I54T} with a C-terminal c-Myc tag in pcDNA1/Neo. AQP2 ^{I54T} with a C-terminal c-Myc tag, Km ^r .	[38]
pEGFP-AQP2 ^{wt}	pEGFP-AQP2* without the I54T mutation.	This study
pcDNA1-AQP2 ^{wt}	pcDNA1-AQP2* without the I54T mutation.	This study
pEGFP-AQP2 ^{S256D}	pEGFP-AQP2 ^{wt} with S256D point mutation. This construct is annotated AQP2-S256D-EGFP in the text.	This study
pEGFP-AQP2 ^{S256A}	pEGFP-AQP2 ^{wt} with S256A point mutation. This construct is annotated AQP2-S256A-EGFP in the text.	This study
pcDNA3.1/zeo(+)	Mammalian expression vector, CMV promoter, Amp ^r .	Invitrogen
pcDNA-AQP2 ^{wt}	AQP2 ^{wt} with a C-terminal c-Myc tag subcloned from pcDNA1-AQP2 ^{wt} into pcDNA3.1/zeo(+) using <i>XhoI</i> and <i>XbaI</i> . This construct is annotated AQP2 WT in the text.	This study
pcDNA-AQP2 ^{S256D}	pcDNA-AQP2 ^{wt} with S256D point mutation. This construct is annotated AQP2-S256D in the text.	This study
pcDNA-AQP2 ^{S256A}	pcDNA-AQP2 ^{wt} with S256A point mutation. This construct is annotated AQP2-S256A in the text.	This study
pPAGFP-C1	Mammalian expression vector for N-terminal fusion with photoactivatable GFP (PAGFP), Km ^r .	[46]
pPAGFP-AQP2 ^{wt}	AQP2 ^{wt} with a C-terminal c-Myc tag in pPAGFP-C1. This construct is annotated AQP2 WT-PAGFP in the text.	This study

^a Km^r, kanamycin resistance; Amp^r, Ampicillin resistance.

Table S2. Primers used in this study.

Primer Name	Primer Sequence (5'-3')	Description
F-CMV	cgcaaatgggtaggtagcgtg	For amplification with pcDNA-AQP2 ^{wt} as template
R-BGH	actagaaggcagctcaggcgtg	
F-EGFP-C	catggtcctctgtagtctcgtg	For amplification with pEGFP-AQP2 as template
R-pBABE	accctaactgacacacattcc	
R-AQP2_S256D	gaggagagtggagctccacgtcctgcccgcgcact	To introduce S256D point mutation
F-AQP2_S256D	agtgcggcggcggcaggacgtggagctccactctcctcag	
R-AQP2_S256A	ctgaggagagtggagctccactgctgcccgcgcact	To introduce S256A point mutation
F-AQP2_S256A	agtgcggcggcggcaggcagtgtagctccactctcctcag	