

Supplementary Materials

AQP1 in the Gastrointestinal Tract of Mice: Expression Pattern and Impact of AQP1 Knockout on Colonic Function

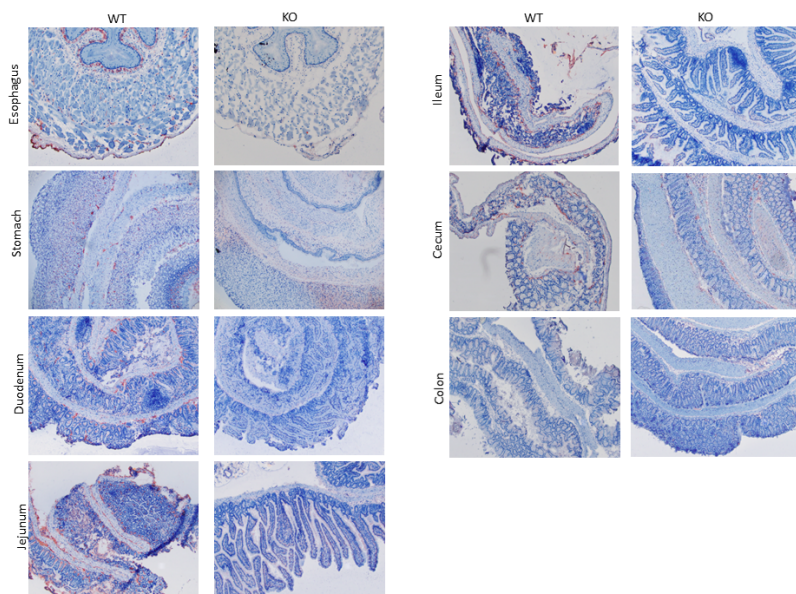


Figure S1. AQP1 expression in different parts of the gastrointestinal tract (WT and AQP1-KO).

AQP1 mRNA expression in different parts of the gastrointestinal tract (WT and AQP1-KO)

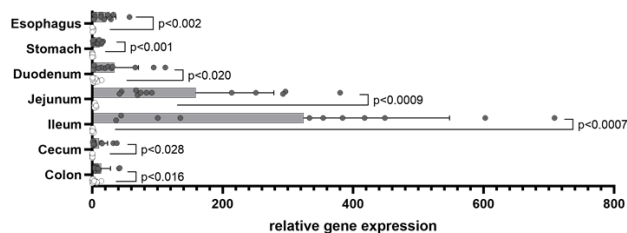


Figure S2. AQP1 mRNA expression in different parts of the gastrointestinal tract (WT and AQP1-KO);.

Table S1. Intestinal wall WT and AQP1-KO mean, standard deviation (SD) and number of measurements (N). All measurements in μm .

	Intestinal wall WT			Intestinal wall AQP1-KO			Difference
	Mean	SD	N	Mean	SD	N	p-value
Esophagus	280.82	87.51	30	240.97	94.35	24	0.128
Stomach	415.19	114.94	30	609.07	125.73	24	<0.0001
Duodenum	229.09	96.82	24	261.65	94.87	24	0.245
Jejunum	325.57	129.79	27	620.67	213.53	24	<0.000001
Ileum	313.30	143.58	27	417.34	67.69	24	0.002
Cecum	255.53	63.55	30	294.59	72.22	24	0.325
Colon	481.29	108.86	30	377.01	79.79	24	0.006

Table S2. Muscular layer WT and AQP1-KO mean, standard deviation (SD) and number of measurements (N). All measurements in μm .

	Muscular layer WT			Muscular layer AQP1-KO			Difference
	Mean	SD	N	Mean	SD	N	p-value
Esophagus	211.08	60.19	30	173.94	68.24	24	0.039
Stomach	132.01	64.76	30	153.98	85.75	24	0.190
Duodenum	54.89	15.97	24	71.96	28.89	24	0.016
Jejunum	61.34	21.85	27	78.70	36.18	24	0.048
Ileum	75.43	26.17	30	87.40	19.62	24	0.069
Cecum	72.58	23.81	29	99.03	36.83	24	0.004
Colon	178.88	58.72	30	136.84	49.00	24	0.007

Table S3. Mucosal layer WT and AQP1-KO mean, standard deviation (SD) and number of measurements (N). All measurements in μm .

	Mucosal layer WT			Musosal layer AQP1-KO			Difference
	Mean	SD	N	Mean	SD	N	p-value
Esophagus	69.74	31.88	30	67.02	28.43	24	0.742
Stomach	283.18	108.25	30	455.09	53.91	24	<0.0001
Duodenum	174.21	84.20	24	189.69	75.93	24	0.507
Jejunum	264.23	116.99	27	541.97	201.89	24	<0.000001
Ileum	236.86	129.92	27	329.95	63.98	24	0.002
Cecum	178.90	48.66	30	195.56	57.30	24	0.415
Colon	302.41	74.26	30	240.17	51.65	24	0.0007