

ABCA1 regulates intraocular pressure by modulating Cav1/eNOS/NO signaling pathway

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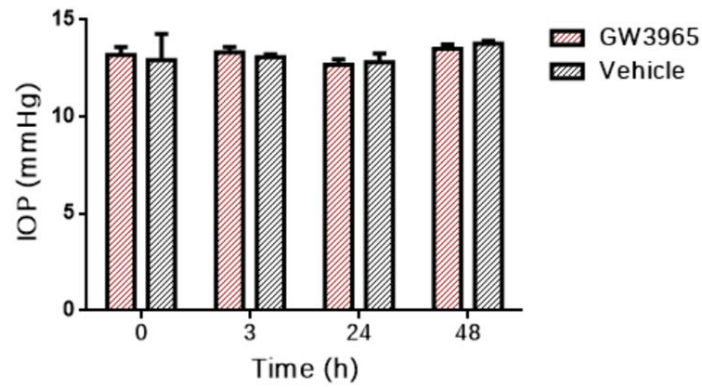


Fig.S1. Intraocular pressure of WT mice treated with topical application of GW3965 and DMSO. GW3965 did not significant affect IOP (n=4, p>0.05).

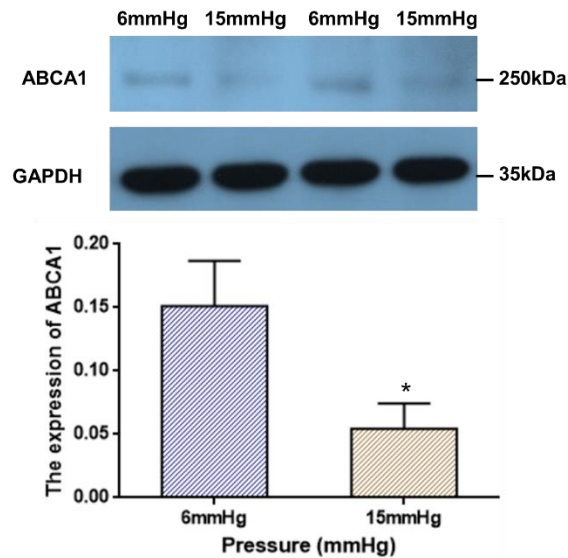


Fig.S2. To characterize ABCA1 expression under elevated IOP, we perfused enucleated mouse eyes at constant pressures. The expression of ABCA1 was lower by 36.01% at 15 mmHg compare to 6 mmHg (n=3, *p<0.05, data were analyzed by one-way ANOVA).

Table S1. Intraocular pressure measured 6 and 12 hours after anterior chamber injection of 2 μ L of 100 μ M GW3965 and vehicle control (2 μ L 0.2% DMSO in PBS) in mouse model (n=5, mice in each group).

IOP (mmHg)	0 hour		6 hours		12 hours	
Mice NO.	GW3965	Vehicle	GW3965	Vehicle	GW3965	Vehicle
1	13.0	12.7	8.7	12.0	10.3	12.0
2	12.3	13.0	8.0	12.7	9.0	13.0
3	14.0	14.0	9.0	11.0	11.0	12.7
4	12.7	13.3	9.3	12.7	12.0	13.0
5	13.3	14.0	8.0	9.3	9.3	12.3
Mean	13.1	13.4	8.6	11.5	10.3	12.6
SD	0.64	0.60	0.60	1.41	1.22	0.43