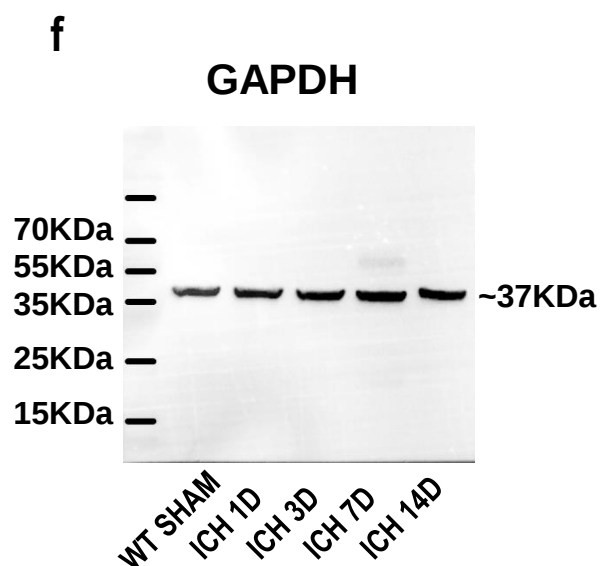
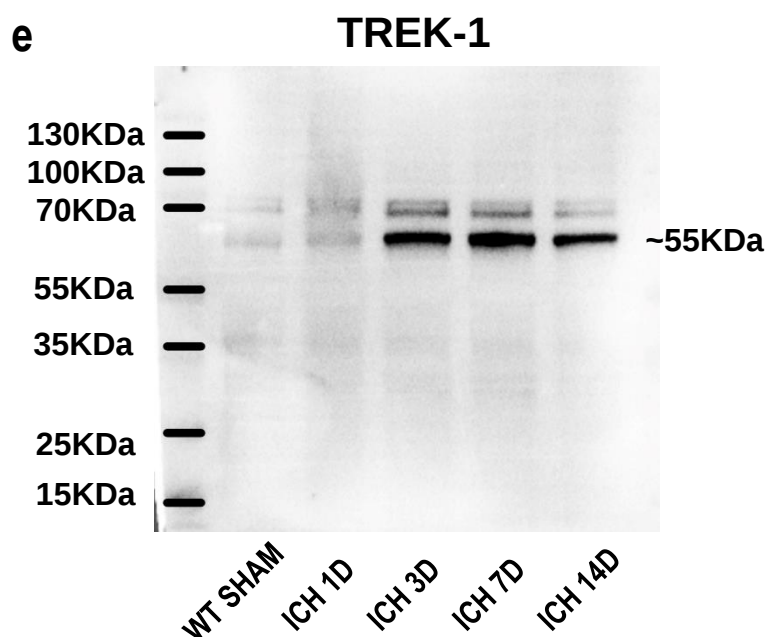
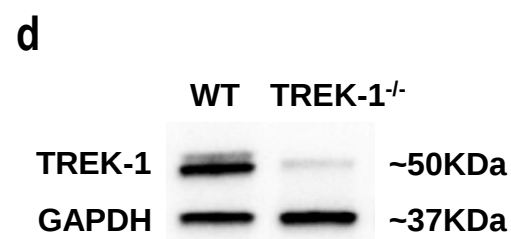
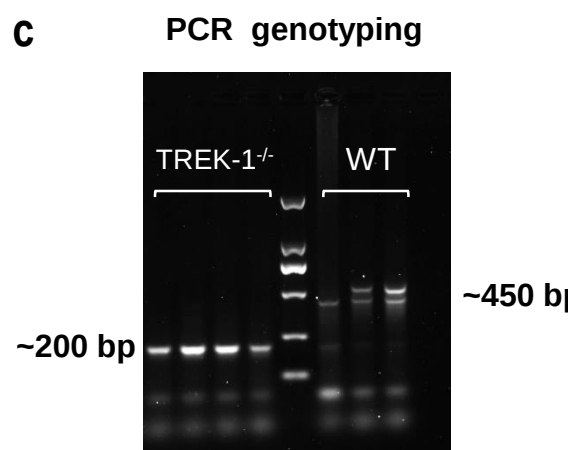
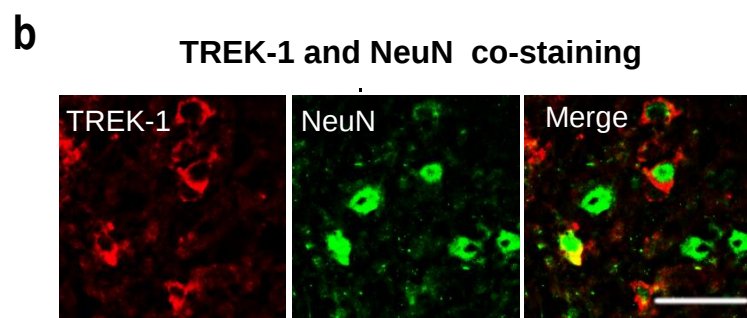
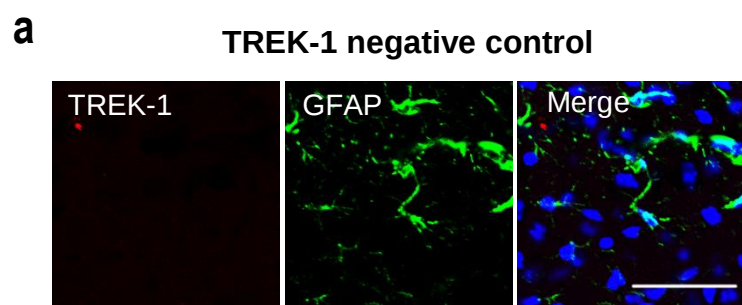
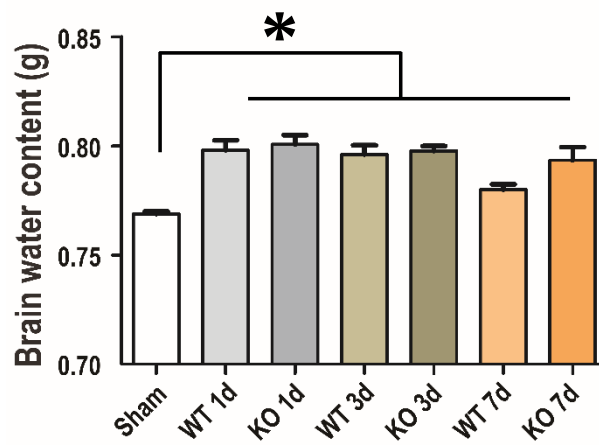




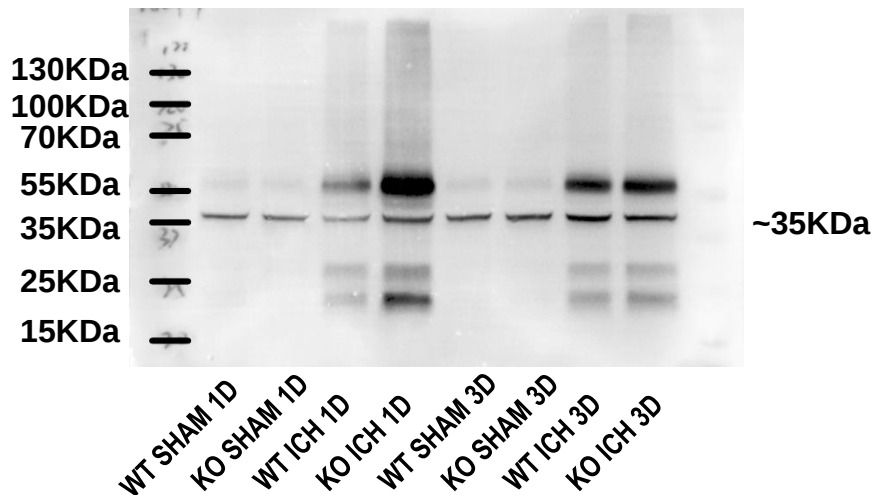
Supplementary Figure 1

a



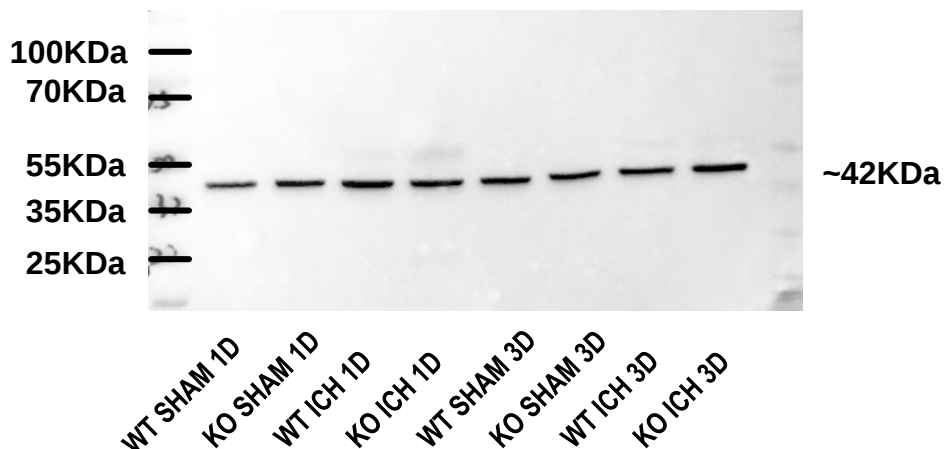
b

AQP4

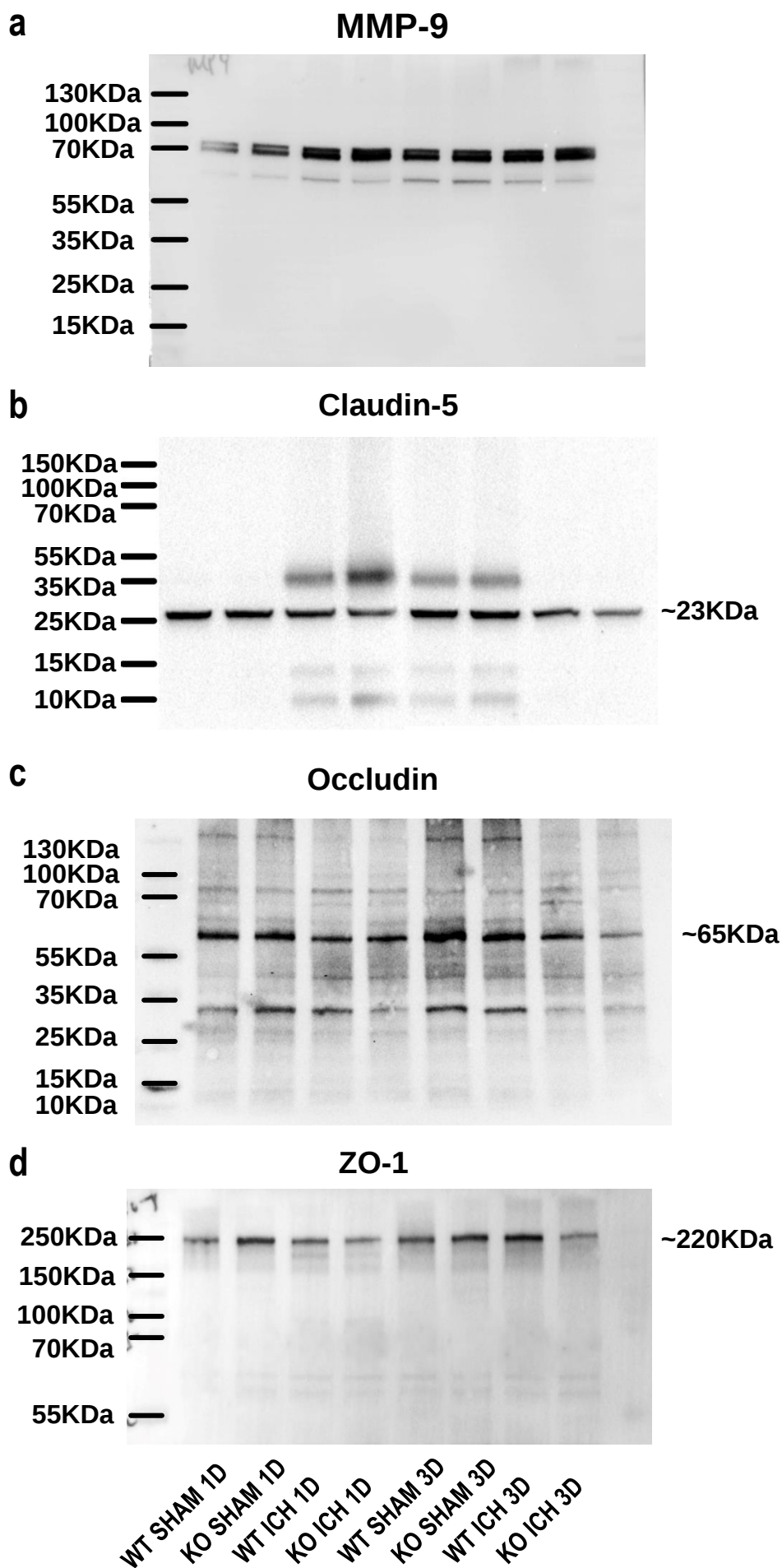


c

β -actin

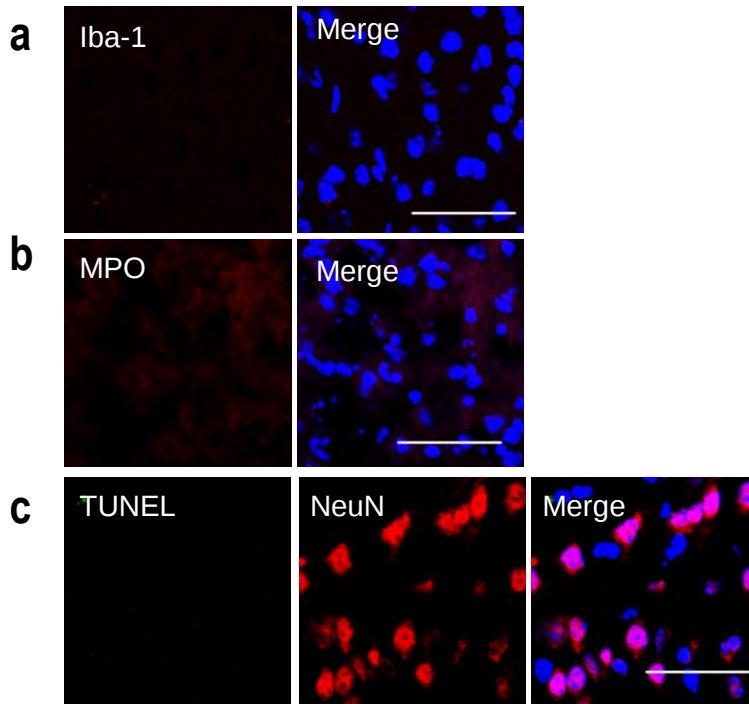


Supplementary Figure 2

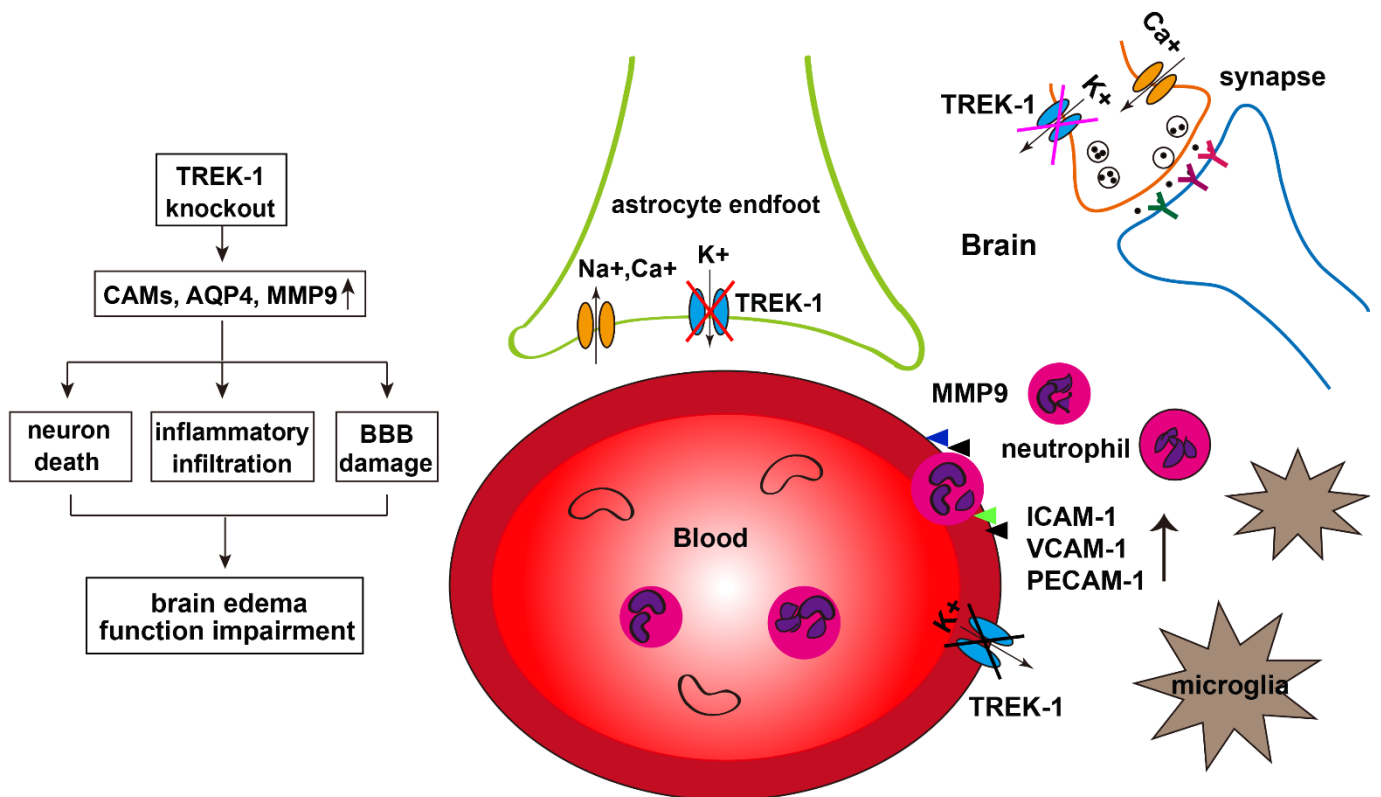


Supplementary Figure 3

Negative control



d Cover image for this issue



Supplementary Figure 5

Study Design

Total 213 mice

Time points experiments	WT sham	KO sham	WT ICH 1D	KO ICH 1D	WT ICH 3D	KO ICH 3D	WT ICH 7D	KO ICH 7D
behavior	3	3	10	10				
Brain water content	–	–	7	7	7	7	5	5
Evans blue extravasation	3	3	5	4	3	3	–	–
immunofluore scent staining	3	3	5	5	5	5	–	–
Western blotting	5	5	5	5	5	5	–	–
ELISA analysis	4	4	4	4	4	4	–	–
hematoma assessment	–	–	5	5	5	5	–	–
MRI	–	–	3	3	3	3	–	–
TEM	2	2	3	3	3	3	–	–

Supplementary Table 1

Antibodies Catalog

Reagent	Manufacturer	concentration	Catalog number
TREK-1	Alomone Lab, Jerusalem, Israel	1:100(IF) 1 : 500(WB)	APC-047
Iba-1	Wako, Osaka, Japan	1 : 200(IF)	019-19741
MPO	Santa Cruz Biotechnology ,Texas, USA	1:100(IF)	SC-16128-R
GFAP	Abcam Shanghai, China	1:200(IF)	ab-53554
CD31	BD Bioscience New Jersey ,USA	1:100(IF)	550274
Claudin-5	Thermo fisher scientific Massachusetts, USA	1:200(IF) 1:700(WB)	35-2500
Occludin	Thermo fisher scientific Massachusetts, USA	1:200(IF) 1:700(WB)	71-1500
ZO-1	Thermo fisher scientific Massachusetts, USA	1:200(IF) 1:700(WB)	61-7300
AQP4	proteintech Wuhan, China	1:50(IF)	16473-1-AP
MMP9	Cell Signaling Technology, Beverly, MA, USA	1:1000(WB)	13667
ICAM1	proteintech Wuhan, China	1:100(IF)	10020-1-AP
VCAM1	Cell Signaling Technology, Beverly, MA, USA	1:100(IF)	39036
β-actin	Boster ,Wuhan, China	1:1000(WB)	BM0627
TUNEL apoptosis Detection Kit	Roche, Basel, Switzerland		11684795910
Donkey anti-Mouse IgG Alexa Fluor 488	Thermo fisher scientific Massachusetts, USA	1:300	A-21202
CY3-conjugated goat anti-rabbit IgG	Jackson Immuno- Research, West Grove, PA, USA	1:300	111-166-003
horseradish peroxidase (HRP) conjugated goat anti- rabbit IgG	Boster, Wuhan, China	1 : 6000	16-04-26
HRP-conjugated goat anti-mouse IgG	Boster, Wuhan, China	1 : 6000	16-04-29
IL-1 Elisa kit	Neobioscience,Shenzh en ,China		M170718-001a
TNF-α Elisa kit	Neobioscience,Shenzh en ,China		M170718-102a

Supplementary Table 2