

**Table SI.** Antibodies for immunofluorescence staining and western blotting.

Antibodies	Supplier	Cat. no.	Dilution
UNC5B	Cell Signaling Technology, Inc.	13851	1:1,000
$\beta$ -actin	Zen Bioscience Ltd.	380624	1:1,000
ZO-1	Cell Signaling Technology, Inc.	13663	1:1,000
Occludin	Cell Signaling Technology, Inc.	91131	1:1,000
PLVAP	Thermo Fisher Scientific, Inc.	PA5-115774	1:1,000
Caveolin-1	Cell Signaling Technology, Inc.	3238	1:1,000
NG2	Santa Cruz Biotechnology, Inc.	sc-53389	1:200
NEUN	Abcam	ab177487	1:500
TUBB3	Abcam	ab18207	1:500
Vimentin	Abcam	ab92547	1:500
Collagen IV	Hangzhou HuaAn Biotechnology Co., Ltd.	HA500197	1:1,000
Fibronectin	Hangzhou HuaAn Biotechnology Co., Ltd.	ET1702-25	1:1,000
Laminin	Hangzhou HuaAn Biotechnology Co., Ltd.	ET1703-14	1:2,000
p-MST	Hangzhou HuaAn Biotechnology Co., Ltd.	HA721737	1:1,000

MST	Hangzhou HuaAn Biotechnology Co., Ltd.	HA500043	1:1,000
YAP	Hangzhou HuaAn Biotechnology Co., Ltd.	ET1608-30	1:1,000
TAZ	Hangzhou HuaAn Biotechnology Co., Ltd.	HA500300	1:1,000
Histone H3	Hangzhou HuaAn Biotechnology Co., Ltd.	M1309-1	1:10,000
Goat anti-Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody (Alexa Fluor 488)	Thermo Fisher Scientific, Inc.	A-11008	1:500
Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (Alexa Fluor 594)	Thermo Fisher Scientific, Inc.	A-11005	1:500
HRP-labeled Mouse Anti-Native Rabbit IgG (H+L)	Beyotime Biotechnology	A0210	1:1,000
HRP-labeled Rat Anti-Native Mouse IgG (H+L)	Beyotime Biotechnology	A0218	1:1,000

UNC5B, unc-5 netrin receptor B; ZO-1, zonula occludens-1; PLVAP, plasmalemma vesicle associated protein; IB4, isolectin B4; NG2, neuron-gial antigen 2; NEUN, neuron-specific nuclear protein; TUBB3, class III  $\beta$ -tubulin; MST, mammalian Ste20-like kinase; YAP, yes-associated protein; TAZ, transcriptional co-activator with PDZ-binding motif; p-, phosphorylated.

**Table SII.** Primer sequences for reverse transcription-quantitative PCR.

Gene	Species	Forward primer (5'-3')	Reverse primer (5'-3')
UNC5B	Mouse	CGGGACGCTACTTGACTCC	GGTGGCTTTTAGGGTCGTTTAG
UNC5B	Human	GTCGGACACTGCCAACTATAC	CCGCCATTCACGTAGACGAT
ZO-1	Human	CAACATACAGTGACGCTTCACA	CACTATTGACGTTTCCCCACTC
Occludin	Human	ACAAGCGGTTTTATCCAGAGTC	GTCATCCACAGGCGAAGTTAAT
Claudin-5	Human	CTCTGCTGGTTCGCCAACAT	CAGCTCGTACTTCTGCGACA
Caveolin-1	Human	GCGACCCTAAACACCTCAAC	ATGCCGTCAAAACTGTGTGTC
$\beta$ -actin	Mouse	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT
$\beta$ -actin	Human	CATGTACGTTGCTATCCAGGC	CTCCTTAATGTCACGCACGAT

UNC5B, unc-5 netrin receptor B; ZO-1, zonula occludens-1.