

**Table S1** Patient data of TBI cases.

Patient number	Gender	Age	Injured Brain zone	GCS	Reason for TBI
1	M	24	Left hemisphere	5	Car accident
2	M	37	Temporal lobe	8	Unknown
5	M	41	Left hemisphere	4	Fall accident

**Table S2** Antibodies used in this study.

Antibody	Company	Reference	Dilution	Application
$\alpha$ -SMA	Invitrogen	14-9760-82	1:100	IF
PDGFR $\beta$	Invitrogen	MA5-15143	1:100	
PDGFR $\beta$	Santa Cruz	sc-374573	1:100	
Cit H3	Abcam	ab5103	1:200	
CD11b	Novus	NB600-1327SS	1:200	
ZO-1	Abcam	ab221547	1:200	
DAPI	Solarbio	C0065	1:1000	
PB anti-mouse/human CD11b antibody clone M1/70	Biologend	101224	1:100	FACS
PE rat anti-mouse CD11b clone M1/70	BD Pharmingen	553311	1:100	
Fixable viability dye L/D eFluor™ 780	Invitrogen	65-0865-14	1:500	
PerCP anti-mouse CD45 Antibody clone 30-F11	Biologend	103130	1:400	
FITC rat anti-mouse CD13 cone R3-242	BD Biosciences	558744	1:20	
MPO	R&D	AF-3667	1:50	
PE-Cy7 rat anti-mouse LY6G clone 1A8	BD Biosciences	560601	1:200	
Cit H3	Abcam	ab5103	1:50	

PE rat anti-mouse CD31 Clone MEC13.3	BD Biosciences	563670	1:20	
Dectin-1	Novus	NBP1-45514	1:1000	<b>WB</b>
p-c-Jun	CST	91952S	1:1000	
t-c-Jun	CST	9165	1:1000	
p-PKC $\zeta/\lambda$	CST	9378	1:1000	
t-PKC $\zeta/\lambda$	CST	2998	1:1000	
GAPDH	CST	5174	1:1000	
ZO-1	Abcam	ab216880	1:1000	
CD11b	Abcam	ab133357	1:1000	
c-Jun	CST	9165	1:50	<b>CHIP</b>

**Table S3** Specific primers for qRT-PCR analysis.

Gene name	Forward primer	Reverse primer
<i>CD11b</i> (mouse)	CAGATCAACAATGTGACCGTATGG	CATCATGTCCTTGTACTGCCGC
<i>GAPDH</i> (mouse)	AGGTTGTCTCCTGCGACTTCA	TGGTCCAGGGTTTCTTACTCC
<i>TNF-<math>\alpha</math></i> (mouse)	ACCACGCTCTTCTGTCTACT	AGGAGGTTGACTTTCTCCTG
<i>IL-1<math>\beta</math></i> (mouse)	ACTGTTTCTAATGCCTTCCC	ATGGTTTCTTGTGACCCTGA
<i>CCL5</i> (mouse)	CCTGCTGCTTTGCCTACCTCTC	ACACACTTGGCGGTTTCTTCGA
<i>MMP9</i> (mouse)	GCCCTGGAACCTCACACGACA	TTGGAAACTCACACGCCAGAAG

**Table S4** CHIP primers for promoter sequences.

Binding sites	Forward primer	Reverse primer
<i>SF1</i>	AAATGTGTCAAGATGAAGAGAAGG	CAAAGCACCTTTACCTGCCAC
<i>SF2</i>	CAGGTGGTCAGCGCTTAGTG	ACACCCACATACATACGGCAT