Figure S1. Silencing of PTEN by siRNA transfection. (A) PTEN mRNA expression levels were significantly reduced following si-PTEN transfection in HT22 neurons, compared with untransfected parental cells or cells that were transfected with a control siRNA. (B) Cell viability assay showing that siRNA transfection had no effect on cell viability. siRNA, small interfering RNA; Con, control.

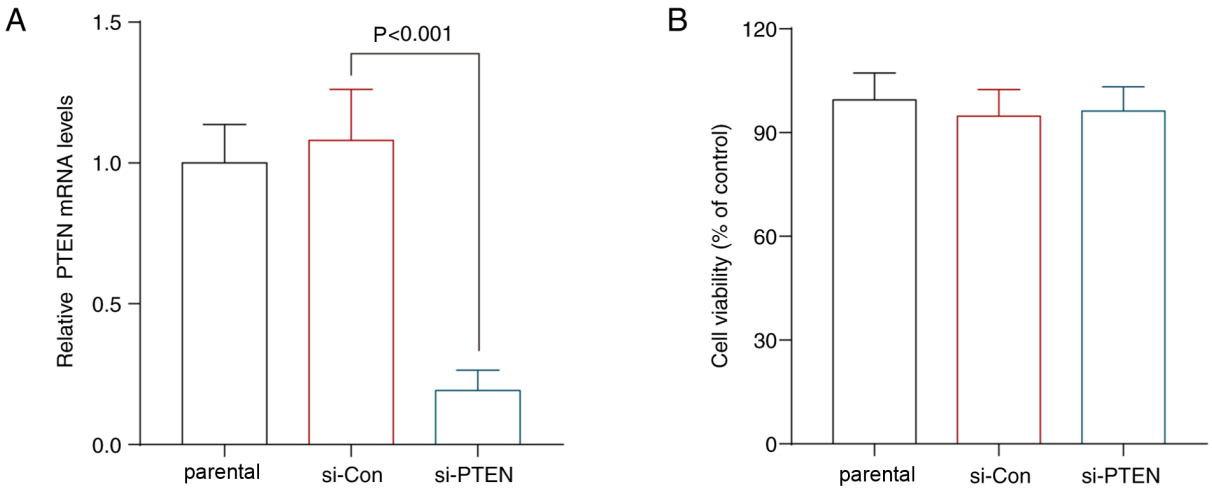

Table SI. Neurological behavior scores.

Category	Behavior	Score
Spontaneous Activity	Moved around, explored the environment, and approached at least three walls of the cage.	3
	Slightly affected moved, did not approach all sides, move hesitating, moved to least one upper rim of the cage.	2
	Severely affected moved, did not rise up at all and barely moved in the cage.	1
	Did not move at all.	0
Symmetry in the Movement of Four Limbs	All four limbs extended symmetrically.	3
	Limbs on left side extended less or more slowly than those on the right.	2
	Limbs on left side showed minimal movement.	1
		0
Forepaw Outstretching	Both forelimbs were outstretched, forepaws walked symmetrically.	3
	Left side outstretched less than the right, and forepaw walking was impaired.	1
	Forelimb on left side did not move at all.	0
Climbing	Left forelimb moved minimally.	3
	Left forelimb did not move.	2
		1
Body Proprioception	Climbed easily and gripped tightly to the wire.	3
	Left side impaired while climbing or did not grip as hard as the right side.	2
	Failed to climb or tended to circle instead of climbing.	1
Response to Vibrissae Touch	Reacted by turning head and was equally startled by the stimulus on both sides.	3
	Reacted slowly to stimulus on left side.	2
	Did not respond to the stimulus placed on the left side.	1
	Reacted by turning head or was equally startled by the stimulus on both sides.	3
	Reacted slowly to stimulus on left side.	2
	Did not respond to stimulus on the left side.	1

Table SII. Sequences of the primers used for reverse transcription-quantitative PCR analysis.

Gene	Primer	Sequence (5'-3')
Mouse GAPDH	Forward	ACAGCAACAGGGTGGTGGAC
	Reverse	TTTGAGGGTGCAGCGAACTT
Mouse RIP1	Forward	TCAGGACCACGGTGCCAAAGA
	Reverse	ATCTCCATAGTGCTGAGCCCAACC
Mouse RIP3	Forward	ACCCTGACTGTGACCCTCCCT
	Reverse	TCAAGCCCTCCAATGTTCTGC
Mouse MLKL	Forward	AAGAAGAACCTGCCCGATGA
	Reverse	CTGGCTGACATCTGAAACGG
Mouse PTEN	Forward	GAAAGGGACGGACTGGTGTA
	Reverse	AGTGCCACGGGTCTGTAATC

RIP, receptor interacting serine/threonine kinase; MLKL, mixed lineage kinase domain like pseudokinase.