

Table SI. Epidemiological information of the human brain tissue.

Sample no.	Sex	Age, years	Clinical diagnosis	Autopsy diagnosis	Slide KBBN code	
					Tumor	Normal
1	Male	50	Brain tumor	Glioblastoma	KBBN07010295	KBBN07010299
					KBBN07010296	KBBN07010300
					KBBN07010297	KBBN07010301
					KBBN07010298	KBBN07010302
2	Male	45	Malignant neoplasm of the cerebrum excluding the lobes and ventricles	Glioblastoma	KBBN03004494	KBBN03004498
					KBBN03004495	KBBN03004499
					KBBN03004496	KBBN03004500
					KBBN03004497	KBBN03004501
3	Male	64	Glioblastoma	Glioblastoma	KBBN05014078	KBBN05014082
					KBBN05014079	KBBN05014083
					KBBN05014080	KBBN05014084
					KBBN05014081	KBBN05014085

KBBN, Korean Brain Bank number.

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

Primers		Sequences (5'→ 3')
Piezo1	Forward	ATGTTGCTCTACACCCTGACC
	Reverse	CCAGCACACACATAGATCCAGT
GDF15	Forward	GAGCTGGGAAGATTCTGAACA
	Reverse	AGAGATACGCAGGTGCAGGT
MMP9	Forward	ATCCGGCACCTCTATGGTC
	Reverse	CTGAGGGGTGGACAGTGG
CTLA4	Forward	AGGTGACTGAAGTCTGTGCG
	Reverse	CATGAGCTCCACCTTGCAGA
GAPDH	Forward	CAGCCTCAAGATCATCAGCA
	Reverse	TGTGGTCATGAGTCCTCCA

GDF15, growth differentiation factor 15; MMP9, matrix metalloproteinase 9.

Data S1. Migration of H4 cells under no pressure. The video shows H4 cell migration during 5 h of culture after no pressure. The video speed is 10 frames per sec.

Data S2. Migration of H4 cells under pressure. The video shows H4 cell migration during 5 h of culture after 12 h of pressure was applied. The video speed is 10 frames per sec.