

Additional information

Table S1 Percentage of cells expressing astrocyte markers

Cell type ¹⁾	% of labeled cells ²⁾				
	GFAP ³⁾	AQP4	ALDH1L1	GS	S100β
<i>Plec</i> ^{+/+}	99.3 ± 0.7 ⁴⁾	98.1 ± 1.3	99.1 ± 0.9	98.5 ± 0.4	91.1 ± 1.0
<i>Plec</i> ^{-/-}	98.9 ± 1.1	98.8 ± 0.8	99.1 ± 0.9	90.5 ± 0.7	90.1 ± 0.9
<i>Plec</i> ^{+/+} <i>p53</i> ^{-/-}	98.6 ± 0.6	99.0 ± 0.8	99.2 ± 0.5	98.2 ± 0.5	90.3 ± 1.1
<i>Plec</i> ^{-/-} <i>p53</i> ^{-/-}	99.5 ± 0.5	99.6 ± 0.4	98.5 ± 1.0	91.3 ± 0.9	90.9 ± 2.3
Human astrocyte	99.2 ± 0.8	100.0 ± 0.0	99.0 ± 0.7		
U-251 MG	99.2 ± 0.8	98.2 ± 0.8	100.0 ± 0.0		

¹⁾ *Plec*^{+/+}, primary mouse astrocytes expressing plectin; *Plec*^{-/-}, primary mouse astrocytes lacking plectin expression; *Plec*^{+/+}*p53*^{-/-}, immortalized mouse astrocytes expressing plectin; *Plec*^{-/-}*p53*^{-/-}, immortalized mouse astrocytes lacking plectin expression; U-251 MG, permanent cell line derived from a human malignant GBM.

²⁾ % reflects the percentage of cells expressing a particular astrocyte marker based on all cells in a field of view.

³⁾ Astrocyte markers: GFAP, glial fibrillary acidic protein; AQP4, aquaporin 4; ALDH1L1 aldehyde dehydrogenase 1 family member L1; GS, glutamine synthetase; S100β, S100 calcium-binding protein β.

⁴⁾ Data obtained from triplicates per cell type are represented as mean ± standard error

Table S2 Primers used for RT-PCR

Amplicon¹⁾	Forward Primer (5'→3')	Reverse Primer (5'→3')
Exon 1 ↔ Exon 2	CTTGTGCTTAGAACCGGAGC	ACCTGTAGATTGGTGACGCC
Exon 1a ↔ Exon 2	GGTAGCAAGAGAACCAGCTCA	AGGTGTTTGTTGACCCACTTG
Exon 1b ↔ Exon 2	TGGTAGTCGTGGGTCATGTTGTC	AGGTGTTTGTTGACCCACTTG
Exon 1c ↔ Exon 2	AAGTGGAGGTGGTTCTGTGG	AGGTGTTTGTTGACCCACTTG
Exon 1d ↔ Exon 2	GAAGATCGTGCCCGATGAA	AGGTGTTTGTTGACCCACTTG
Exon 1e ↔ Exon 2	ACGAGATCAGCTCCCTCAAA	AGGTGTTTGTTGACCCACTTG
Exon 1f ↔ Exon 2	CCGACGAACAGGATTTTCATC	AGGTGTTTGTTGACCCACTTG
Exon 1g ↔ Exon 2	GGCTACCTCTACGGGCAACT	AGGTGTTTGTTGACCCACTTG
HPRT1 ²⁾	CAGGCCAGACTTTGTTGGAT	TTGCGCTCATCTTAGGCTTT
GAPDH	CACTCACGGCAAATTCAACG	ACACCAGTAGACTCCACGAC

¹⁾ Amplicons corresponding to plectin's alternative first exons (1-1g) to exon 2.

²⁾ Internal controls: HPRT1, hypoxanthine guanine phosphoribosyl transferase 1; GAPDH, glyceraldehyde-3-phosphate dehydrogenase.