Supplemental files

Fig. S1 Transwell permeable support 8 μm pores, 6.5 mm inserts.

Fig. S2 EGFP-talin and pEGFP-N2 were transfected into CHO cells, and the proteins EGFP-talin (WT) and EGFP were analyzed by western blots with monoclonal anti-phospho-threonine and anti-phospho-serine antibodies. EGFP exhibited very low phospho-threonine or phospho-serine levels.

Fig. S3 Calpain 2 siRNA was co-transfected into CHO cells with talin$^{T144A+T150A}$. The cells were lysed, and the protein was analyzed by western blots with an anti-calpain2 antibody (top), or immunoprecipitated and analyzed by western blots with a monoclonal anti-GFP antibody (bottom).

Fig. S4 No focal adhesions were observed in cells expressing pEGFP-N2. Scale bars, 20μm.

Fig. S5 Cells uniformly expressing talin$^{T144A+T150A}$ and talin^{S446A}, which were obtained by flow cytometry and observed in bright field and fluorescent field, varied greatly in cell adhesion and growth after the cells were plated on fibronectin-coated MatTek dishes for 4 h. Cells expressing talin^{S446A} adhered well and were larger and elongated, whereas most of the cells expressing talin$^{T144A+T150A}$ did not adhere during this period and were smaller and round. Scale bars, 20μm.

Supplemental files

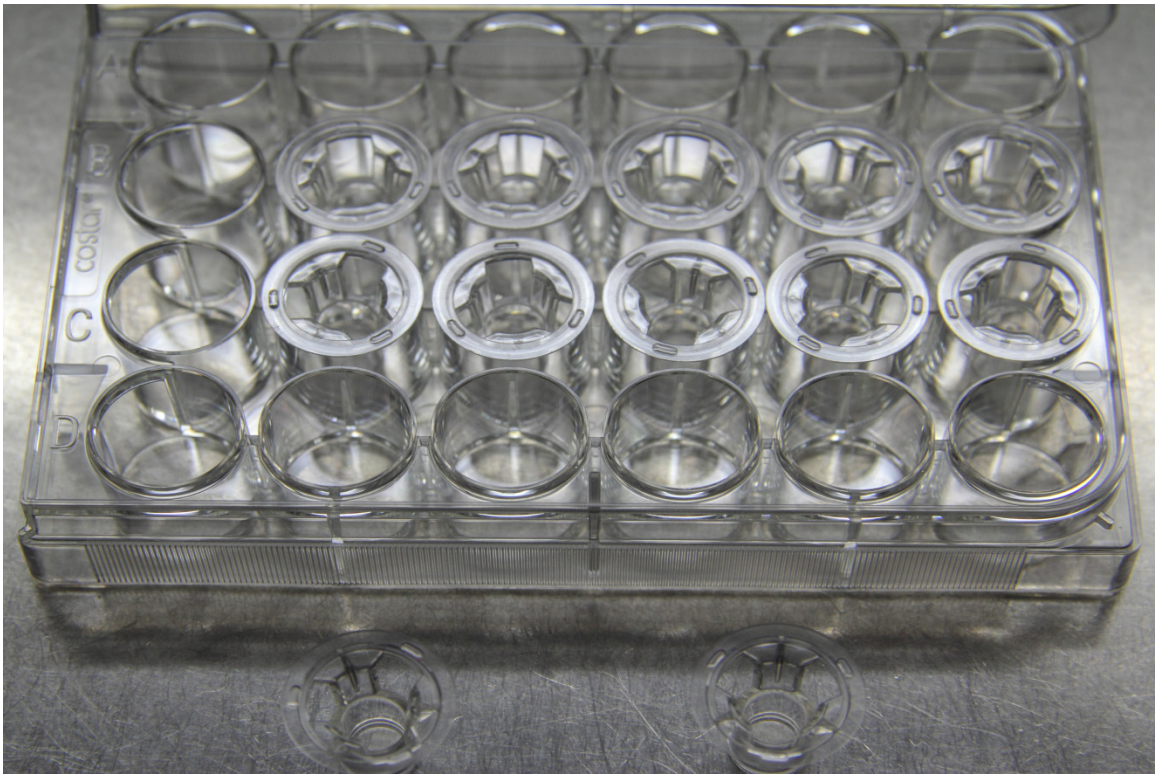

Fig. S1

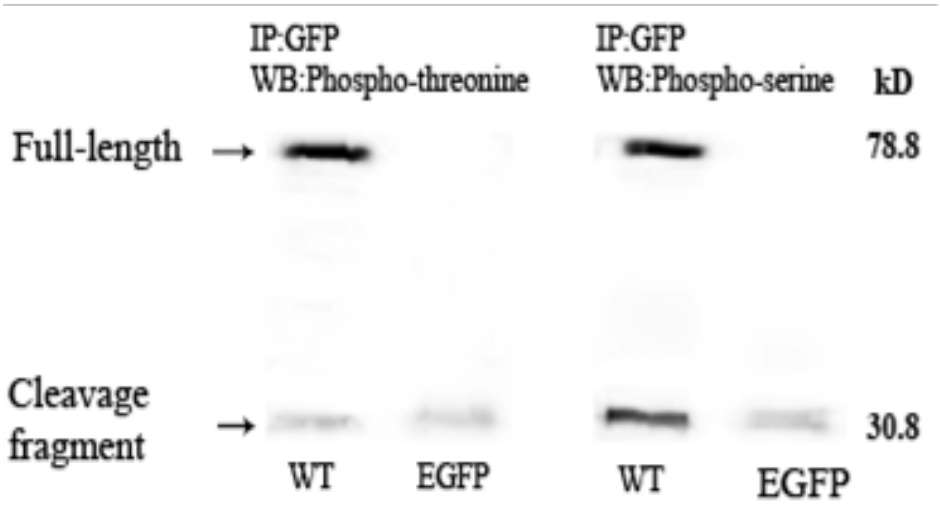

Fig. S2

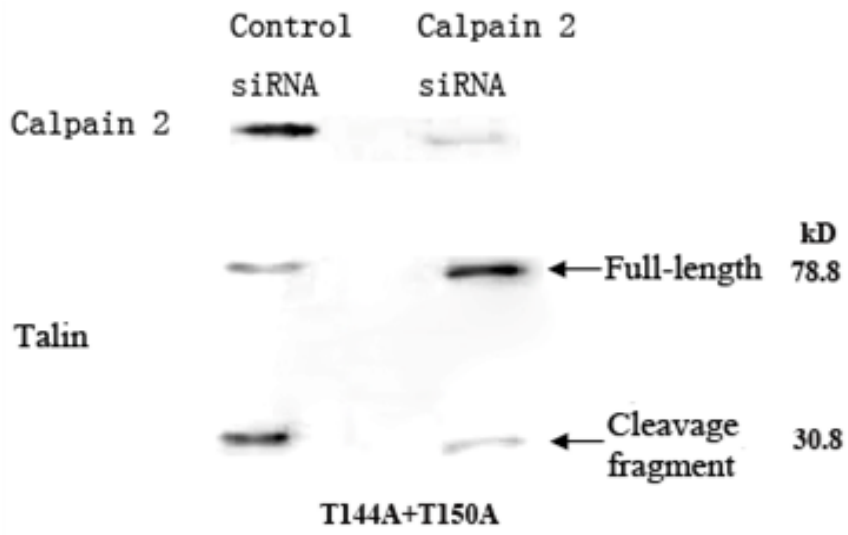
Control
siRNA
Calpain 2
siRNA
Calpain 2
kD
Full-length
78.8
Talin
Cleavage
fragment
30.8
T144A+T150A

Fig. S3

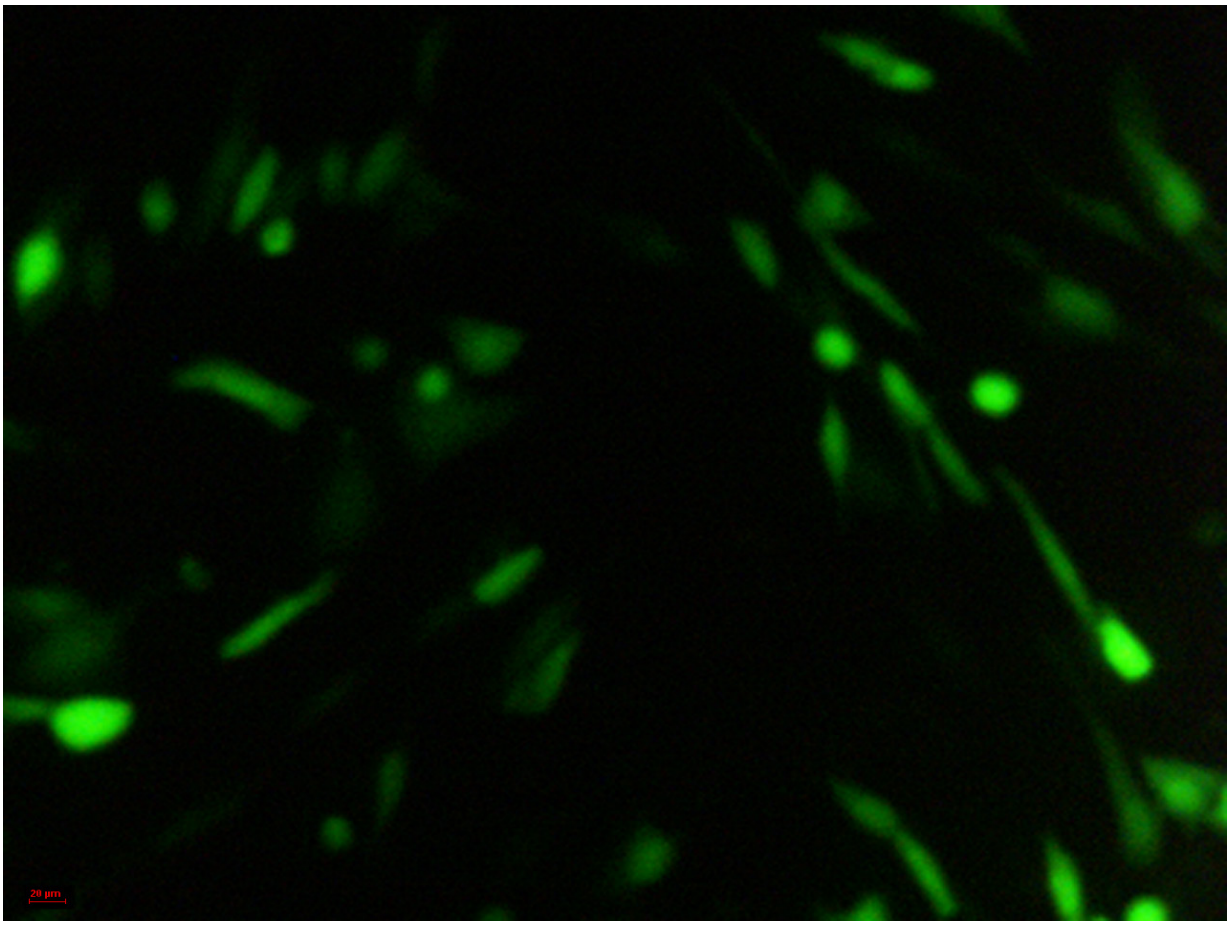

Fig. S4

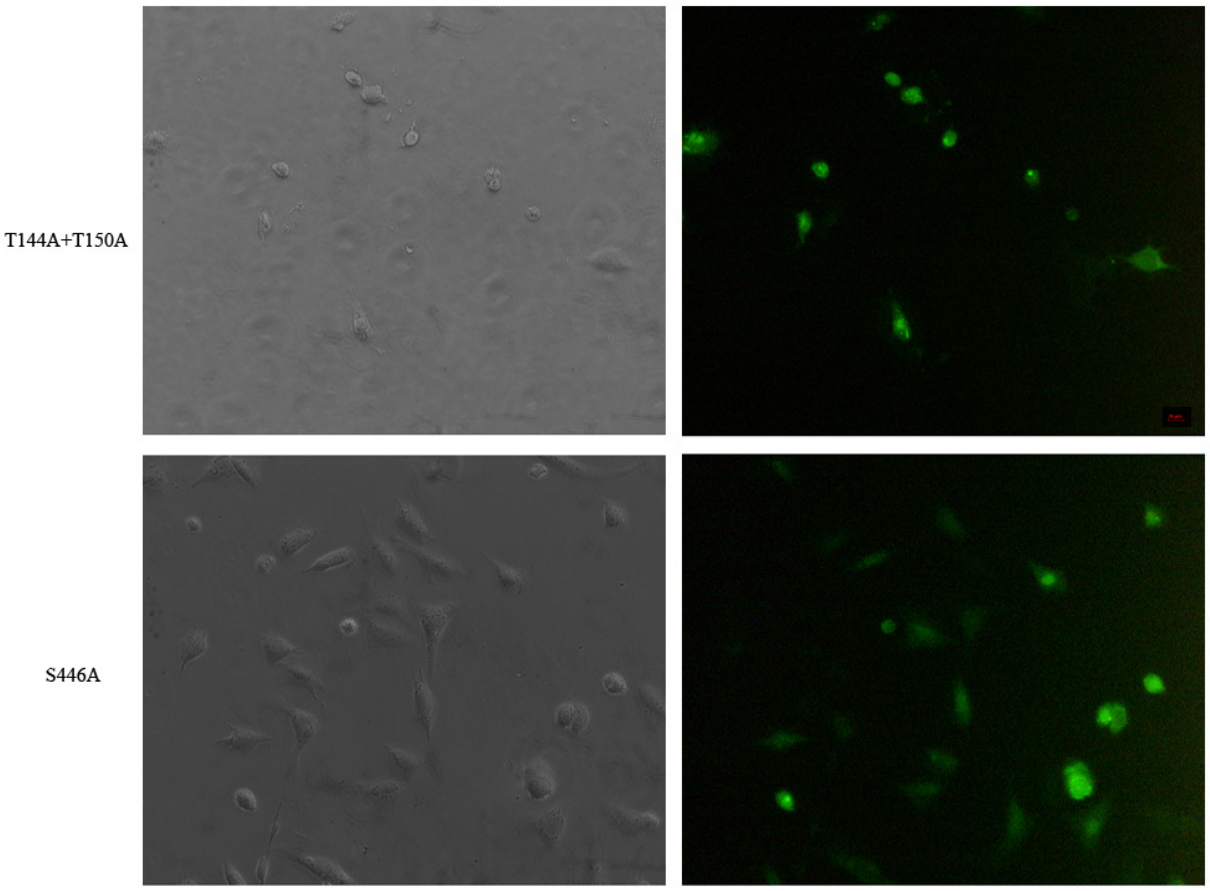

Fig. S5