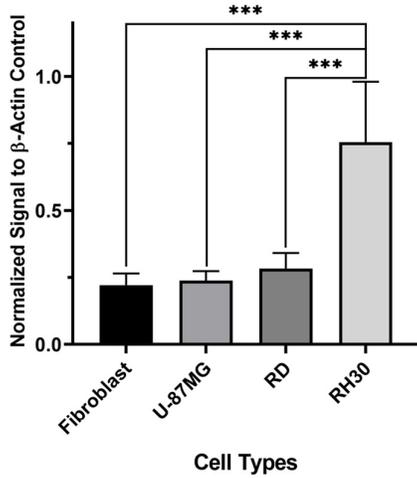
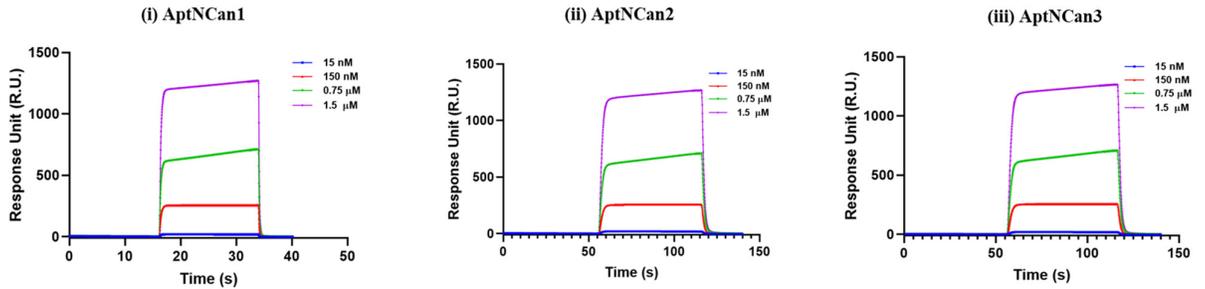


# Supplementary

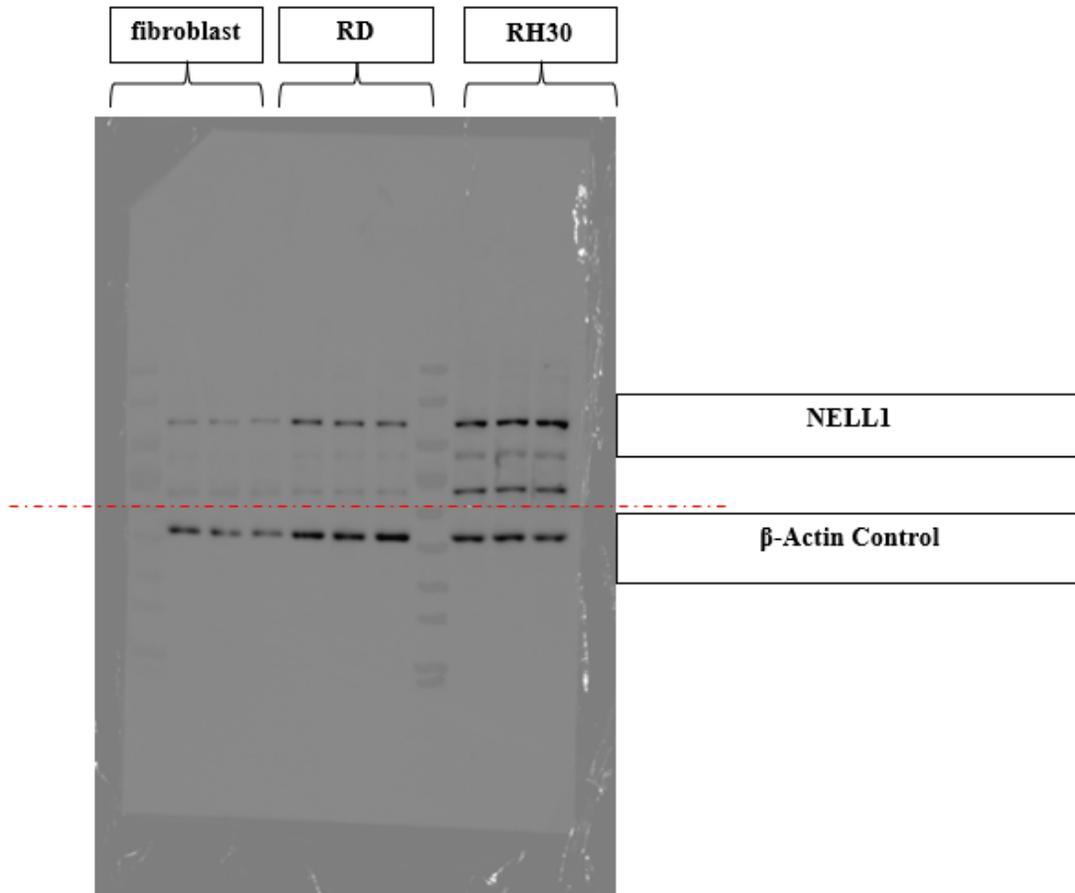


**Figure S1.** Measurement of NELL1 expression level with Western Blotting of several other cell lines.

Quantification of western blotting showing the  $\beta$ -Actin normalized NELL1 expression level of different cell lines. Data is presented at mean  $\pm$ SD for each individual cell line ( $n = 3$ ). Significance was tested using a two tailed t-test compared to the untreated cells for each cell line ( $*p \leq 0.05$ ,  $**p \leq 0.01$ ,  $***p \leq 0.005$ )

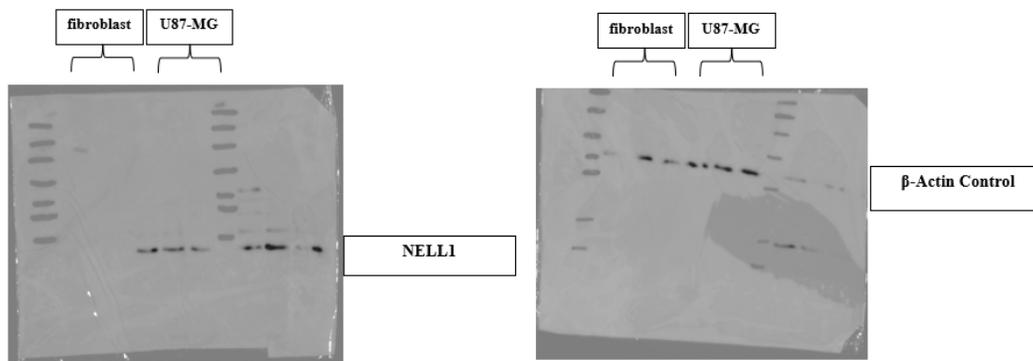


**Figure S2.** Representative quantified binding signal with different concentration of NELL-1 protein with anti-NELL1 aptamer candidates.



**Figure S3.** Full blot images of NELL1 expression level with Western Blotting of fibroblast, RD and RH30.

Western blotting showing NELL1 expression level of fibroblast, RD and RH30. β-Actin was applied as housekeeping gene control Red line showing the cutting position before the separate incubation for β-Actin and NELL1 with different secondary antibody.



**Figure S4.** Full blot images of NELL1 expression level with Western Blotting of fibroblast, U87-MG and RH30.

Western blotting showing NELL1 expression level of fibroblast, RD and RH30.  $\beta$ -Actin was applied as housekeeping gene control The blot was cut at the last step for different incubation of secondary antibody.

**Table S1.** Measurement of densitometry readings of each  $\beta$ -Actin bands within Western Blotting of all tested cell lines.

	<b>Fibroblast</b>	<b>U87-MG</b>	<b>RD</b>	<b>RH30</b>
<b>Band 1</b>	21145.61	21629.48	33759.49	32272.44
<b>Band 2</b>	15774.97	20246.51	34191.32	32369.66
<b>Band 3</b>	14053.78	23285.39	44321.97	27870.78

**Table S2.** Measurement of densitometry readings of each NELL1 bands within Western Blotting of all tested cell lines.

	<b>Fibroblast</b>	<b>U87-MG</b>	<b>RD</b>	<b>RH30</b>
<b>Band 1</b>	2672.962	4205.326	11396.9	19974.44
<b>Band 2</b>	2540.79	3873.326	9929.539	20453.95
<b>Band 3</b>	2424.284	3787.912	9841.489	28318.13