Supplementary data for

CD44v6-Mediated Regulation of Gastric Cancer Stem Cells: A Potential Therapeutic Target

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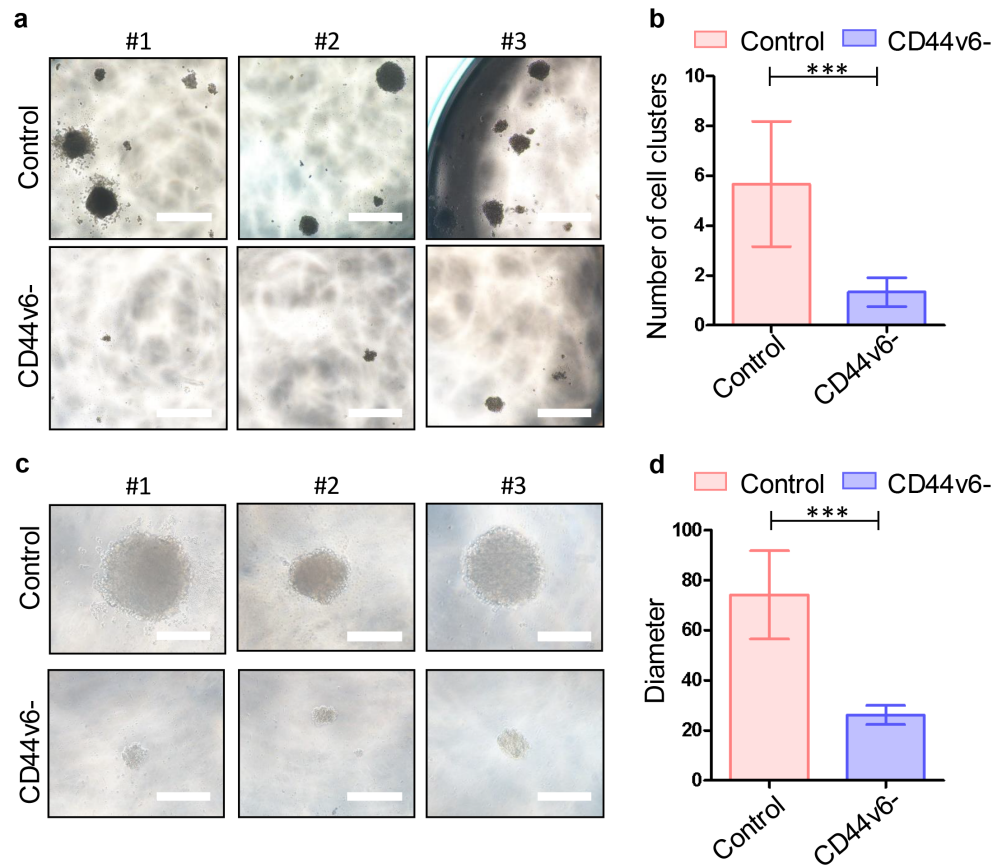
Supplementary figure

Fig. S1

Fig.S1. Effect of CD44v6 knockdown on anchorage-independent growth of gastric cancer cells. (a) Soft agar colony formation assays demonstrate the anchorage-independent growth capacity of control and CD44v6 knockdown cells. Representative images show a reduced number and size of colonies in the CD44v6 knockdown group. Scale bars: 100 μm. (b) Quantitative analysis of the number of colonies formed shows a significant reduction in the CD44v6 knockdown group compared to the control group. (c) Microscopic examination highlights morphological differences between colonies formed by control and CD44v6 knockdown cells, with visibly smaller and less developed colonies in the knockdown group. Scale bars: 50 μm. (d) Quantitative analysis of colony diameter reveals significantly smaller colonies in the CD44v6 knockdown group compared to the control group. Mean±SD of three independent assays is shown, significant differences to control cells: * $p < 0.05$, **$p < 0.01$, and ***$p < 0.001$.

Supplementary Tables

Table S1. Primer sequence used in this study.

Gene	sequence
CD44V6	
F	5′ GATGTCACAGGTGGAAGAAG 3′
R	5′ GGTCCTGCTTTCCTTCGTGT 3′
Nanog	
F	5′ AGAGAAGAGTGTCGCAAAAAGGA 3′
R	5′ TGAGGTTCAGGATGTTGGAGAGTT 3′
Oct4	
F	5′ CACAACGAGAGGATTTTGAGGCTG 3′
R	5′ GCAGTGAAGTGAGGGCTCCCATAG 3′
SOX2	
F	5′ CACCCCTGGCATGGCTCTTG 3′
R	5′ TGGAGTGGGAGGAAGAGGTAAC 3′

Table S2. Information on antibodies used in this study.

Antibody	WB	Specificity	Company
CD44v6(ab205719)	1:2000	Mouse polyclonal	Abcam
CD44(ab243894)	1:1000	Rabbit monoclonal	Abcam
CD24(ab290730)	1:1000	Rabbit monoclonal	Abcam
CD133 (ab19898)	1:1000	Rabbit polyclonal	Abcam
EpCAM(ab223582)	1:1000	Rabbit monoclonal	Abcam
β-actin （A5441）	1:10000	Mouse monoclonal	Sigma