

Figure S1. Identification and isolation of HA^{-/low} and HA^{high} subpopulations based on differential fl-HA binding to MCF7, T47D, MDA-MB-231 and BT-549 cells. HA, hyaluronan; fl, fl, Fluorescein-labeled.

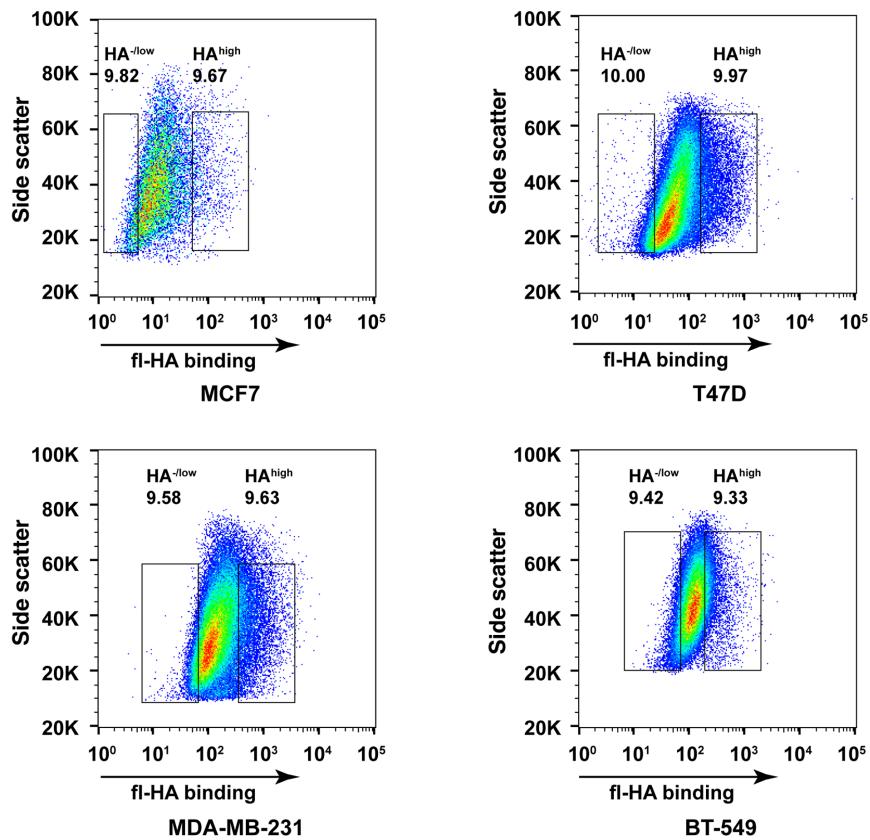


Figure S2. mRNA levels of each CD44 exons in MDA-MB-231 after corresponding CD44v knockdown. CD44v, CD44 variant; siRNA/si, small interfering RNA.

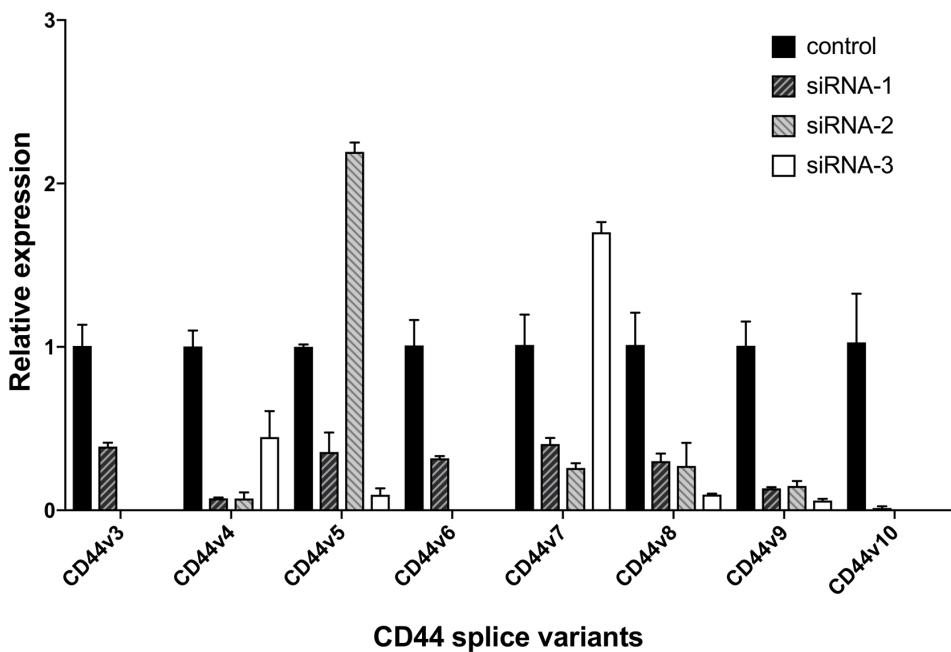


Table SI. siRNA sequences corresponding to each CD44v exon.

| siRNA | Sequence (5'→3') |
|-------------|------------------------|
| si-control | GCGACGAUCUGCCUAAGA |
| si-CD44v3 | AGGCAUUGAUGAUGAUGAA |
| si-CD44v4-1 | GGAACCCAAGCCAUCUAAA |
| si-CD44v4-2 | GGAAGUGCUACUUCAGACAA |
| si-CD44v4-3 | GACAACCACAAGGAUGACU |
| si-CD44v5-1 | CCUCAUUCACCAUGAUGCAU |
| si-CD44v5-2 | CUUAUGAAGGAAACUGGAA |
| si-CD44v5-3 | GGAAGAAGAGACCCCCACAU |
| si-CD44v6 | CAGUGGUUUGGCAACAGAU |
| si-CD44v7-1 | CUGAUUUCUCAACCCAAU |
| si-CD44v7-2 | AGCCAUCCAAUGCAAGGAA |
| si-CD44v7-3 | GGUCAUCAAGCAGGAAGAA |
| si-CD44v8-1 | GUCAUAGUAUAACGCUUCA |
| si-CD44v8-2 | CACAGGUUUGGUGGAAGAU |
| si-CD44v8-3 | GGACCUCUUUCAAUGACAA |
| si-CD44v9-1 | CUUCUACUCUGACAUCAAG |
| si-CD44v9-2 | AGAGUAAUUCUCAGAGCUU |
| si-CD44v9-3 | CACAUGAAGGCUUGGAAGAAGA |
| si-CD44v10 | CUACUUUACUGGAAGGUUA |

siRNA/si, small interfering RNA; CD44v, CD44 variant.

Table SII. Sequences of primers used in the study for reverse transcription-qPCR.

| Name | Sequences (5'→3') |
|----------------|--------------------------|
| CD44v3-qPCR-F | GGGAGCCAAATGAAGAAAATG |
| CD44v3-qPCR-R | TGGTGCTGGAGATAAAATCTTC |
| CD44v4-qPCR-F | ACACCACGGGCTTTGAC |
| CD44v4-qPCR-R | CATCCTTGTGGITGTCTGAAGTA |
| CD44v5-qPCR-F | ACTGCTTATGAAGGAAACTGG |
| CD44v5-qPCR-R | GTGCTTGTAGAATGTGGGGT |
| CD44v6-qPCR-F | CAACGGAAGAACAGCTACC |
| CD44v6-qPCR-R | CTGTTGTCGAATGGGAGTCT |
| CD44v7-qPCR-F | CAGCCTCAGCTCATACCAGC |
| CD44v7-qPCR-R | GCTTGATGACCTCGTCCCAT |
| CD44v8-qPCR-F | GGACTCCAGTCATAGTATAACGC |
| CD44v8-qPCR-R | CATTGAAAGAGGTCTGTCCCT |
| CD44v9-qPCR-F | AGCAGAGTAATTCTCAGAGCTT |
| CD44v9-qPCR-R | TGCTTGATGTCAGAGTAGAAGT |
| CD44v10-qPCR-F | TGTCACAGGTGGAAGAAAGAGA |
| CD44v10-qPCR-R | GAGGTCACTGGGATGAAGGT |
| GAPDH-qPCR-F | TCCCCACTCTTCCACCTTCGATGC |
| GAPDH-qPCR-R | GGGTCTGGGATGGAAGTGGTGAGG |

CD44v, CD44 variant; qPCR, quantitative PCR; F, forward; R, reverse.