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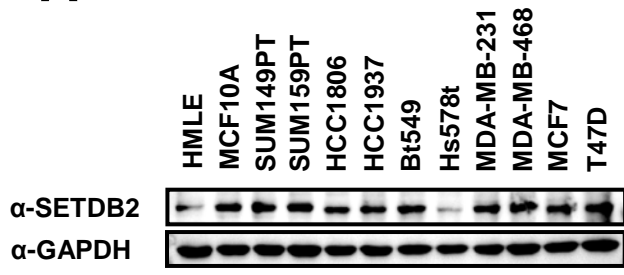


Figure S1. SETDB2 expression level in breast cancer cell lines. (A) Western blot was used to analyze the SETDB2 expression level in breast cancer cell lines.

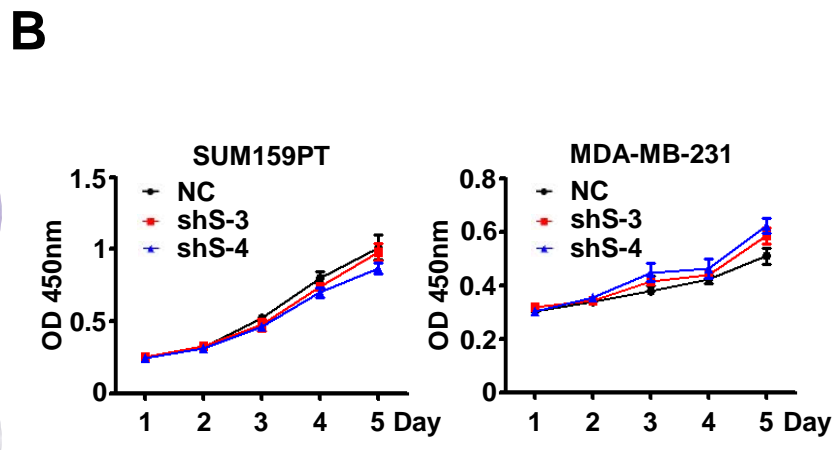
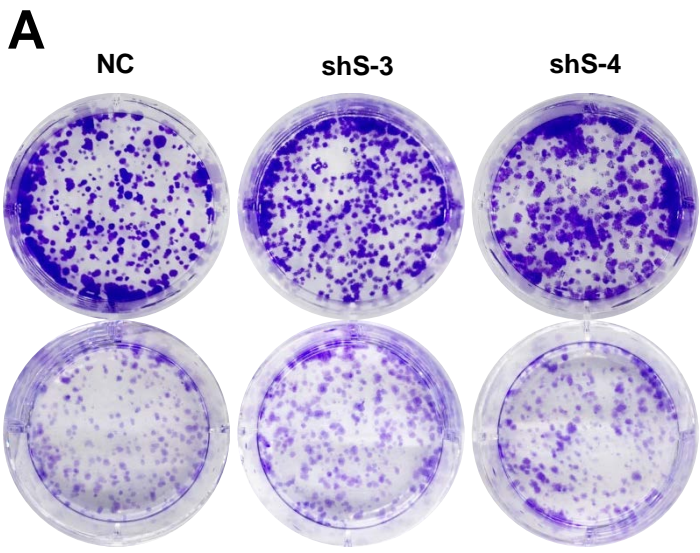


Figure S2. SETDB2 has negligible effect on breast cancer cell proliferation. (A) The colony formation assay in SETDB2-knockdown SUM159PT and MDA-MB-231 cell lines. (B) The CCK-8 assay in SETDB2-knockdown SUM159PT and MDA-MB-231 cell lines.

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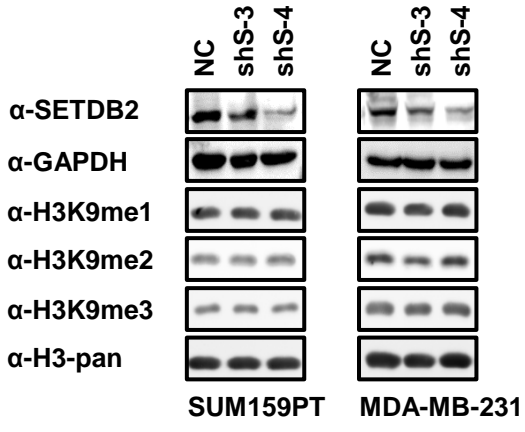


Figure S3. SETDB2 has negligible effect on the global histone H3K9 methylation level in breast cancer cells. (A) Western blot was used to determine the SETDB2, H3, H3K9me1, H3K9me2 and H3K9me3 levels in SETDB2-knockdown SUM159PT and MDA-MB-231 cell lines. An anti-H3-pan and anti-GAPDH antibody was used as the loading control. The anti-SETDB2 antibody showed the knockdown efficiency in SUM159PT and MDA-MB-231 cell lines.

Table S1: SETDB2 sequence.

GGTACCATGGGAGAGAAGAACGGCGACGCCAAGACCTTTTGGATGGAGCT
CGAGGACGACGGCAAGGTGGACTTCATCTTCGAGCAGGTGCAGAACGTGC
TGCAGAGCCTGAAGCAGAAGATCAAGGACGGCAGCGCCACCAACAAGGA
GTACATCCAGGCCATGATCCTGGTGAACGAGGCCACAATCATCAACAGCAG
CACCAGCATCAAGGGCGCCTCTCAGAAGGAAGTGAACGCCCAGAGCAGC
GACCCTATGCCAGTGACCCAGAAGGAGCAGGAGAACAAGAGCAACGCCTT
CCCCAGCACCTCTTGCGAGAACAGCTTCCCCGAGGACTGCACCTTCCTGA
CCACCGAGAACAAGGAGATCCTGAGCCTGGAGGACAAGGTGGTGGACTTC
CGGGAGAAGGACAGCAGCAGCAACCTGAGCTACCAGAGCCACGATTGTAG
CGGCGCTTGCCTGATGAAGATGCCCTGAACCTGAAGGGAGAGAACCCTC
TGCAGCTGCCCATCAAGTGCCACTTCCAGAGGAGGCACGCCAAGACAAAC
TCTCACAGCAGCGCCCTGCACGTGTCTTACAAGACCCCTTGCGGCAGGAG
CCTGAGAAACGTGGAGGAGGTGTTCCGCTACCTGCTGGAGACCGAGTGCA
ACTTCCTGTTACCGACAACCTCAGCTTCAACACCTACGTGCAGCTGGCCA
GGAATAACCCCAAGCAGAAGGAGGTGCTGTCCGACGTGGACATCAGCAAC
GGAGTGGAGAGCGTGCCCATCAGCTTCTGCAACGAGATCGACAGCCGGAA
GCTGCCCCAGTTCAAGTACCGGAAAACCGTCTGGCCCAGAGCCTACAACC
TGACCAACTTCAGCAGCATGTTACCGACTCTTGCGACTGCTCCGAGGGGT
GCATTGACATACCAAGTGCGCTTGCCCTGCAGCTGACCGCTAGAAACGCCA
AGACCAGCCCTCTGAGCAGCGACAAGATCACCACCGGCTACAAGTACAAG
CGGCTGCAGAGGCAGATCCCCACAGGCATCTACGAGTGCAGCCTCCTGTG
CAAATGCAACCGCCAGCTCTGCCAGAACAGAGTGGTGCAGCACGGACCTC
AGGTCCGACTGCAGGTGTTCAAGACCGAGCAGAAGGGTTGGGGCGTGAG
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ACAACCCCAAGGAGCTGACCGTGGAGACCAAGTACGACAACATCAGCCG
GATCCAGTACCACAGCGTGATCAGGGACCCAGAGAGCAAGACCGCCATCT
TCCAGCACAACGGCAAGAAGATGGAGTTCGTGTCCAGCGAGAGCGTGACA
CCAGAGGACAACGACGGCTTCAAGCCTCCTAGGGAGCACCTGAACAGCAA
GACCAAGGGAGCCCAGAAGGACAGCAGCAGCAACCACGTGGACGAGTTC
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ACCAGAACATCAAGAAGGCCATCGAGGTGCAGATCCAGAAGCCCCAGGAG
GGAAGAAGCACAGCTTGCCAGAGGCAGCAGGTCTTCTGCGACGAAGAGC
TGCTGAGCGAGACCAAGAACACCAGCAGCGACAGCCTGACCAAGTTCAA
CAAGGGCAACGTGTTCTGCTGGACGCCACAAAGGAGGGAAACGTGGGC
CGGTTCTGAACCACTCTTGTTGCCCAACCTGCTGGTGCAGAACGTGTTT
GTGGAGACCCACAACCGGAACTTCCCTCTGGTGGCCTTCTTACCAACCG
CTACGTGAAGGCCAGAACCGAGCTGACTTGGGACTACGGCTACGAAGCCG
GAACAGTGCCCGAGAAGGAGATCTTTTGCCAGTGCGGGGTCAACAAGTGC

CGGAAGAAGATCCTGGACTACAAGGACGACGACGACAAGTAGGAATTC

Table S2: Q-PCR and RT-PCR primer sequences.

Primer Name	Sequences (5'-3')
SETDB2-S:	CTGCCAATCAAATGTCACTTCC
SETDB2-AS:	CCACGTTTCGTAGACTCCTTCC
CXCR4-S:	TCTTCCTGCCACCATCTACTC
CXCR4-AS:	GTACTTGTCCGTGTCATGCTTCTCAG
PTCH1-S:	TCAACTGGAACGAGGACAAAGC
PTCH1-AS:	CGTGGTGGTGAAGGAAAGCA
GLI2-S:	TCTGGGGTCAGCCTTTGGA
GLI2-AS:	CTGCTTGTTCTGGTTGGTGTCA
Δ Np63 α -RT-S:	GAAAACAATGCCAGACTCAAT
Δ Np63 α -RT-AS:	AGCCCAACCTCGCTAAGAAA