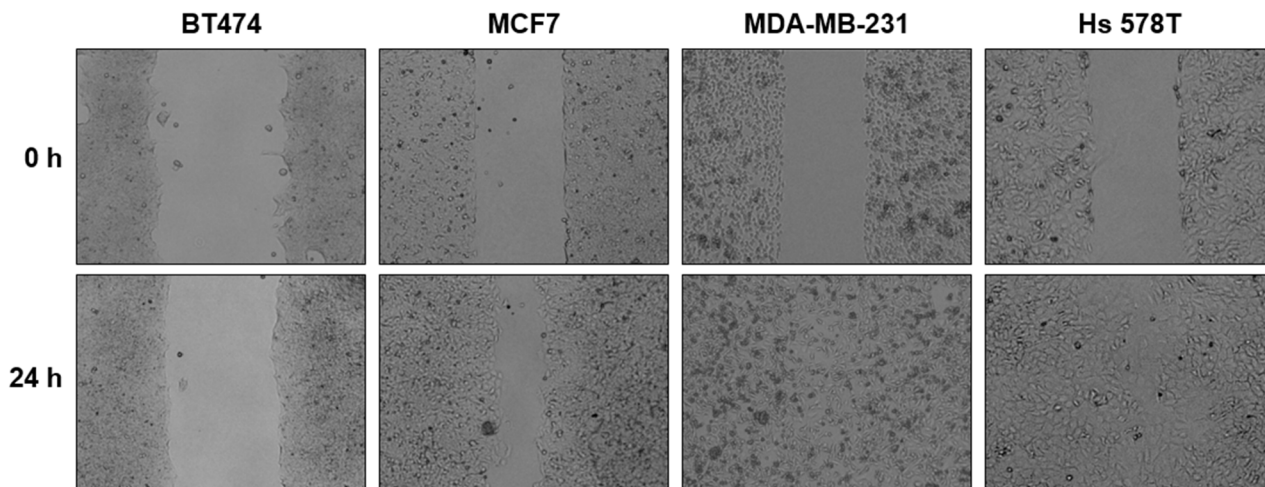
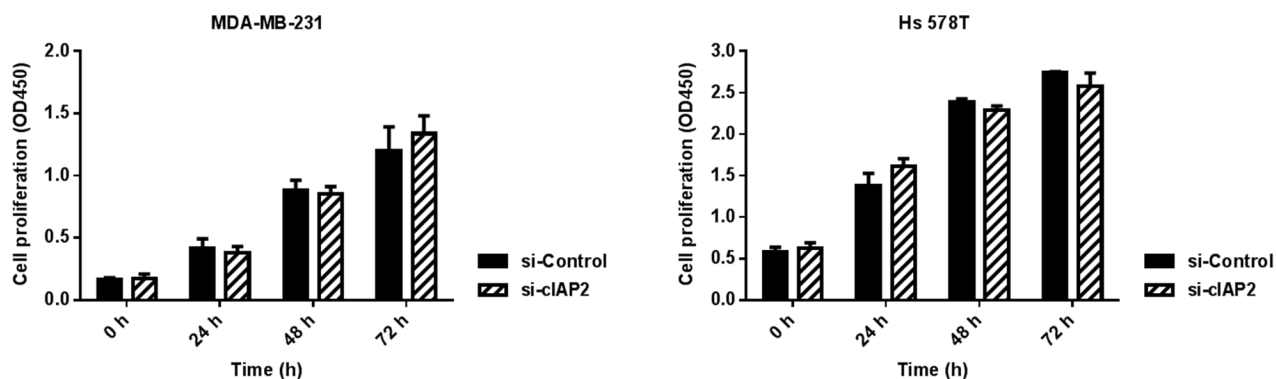


Cellular inhibitor of apoptosis protein 2 promotes the epithelial-mesenchymal transition in triple-negative breast cancer cells through activation of the AKT signaling pathway

SUPPLEMENTARY MATERIALS



Supplementary Figure 1: Cell motility in various breast cancer cell lines (BT474, MCF7, MDA-MB-231, Hs 578T). Cell migration capacity was examined by wound healing assays. Images were taken at 0 and 24 h. The wound width was 500 μm (10 \times magnification).



Supplementary Figure 2: Effect of cIAP2 silencing on cell proliferation in two TNBC cell lines (MDA-MB-231 and Hs 578T). Cell proliferation rates of the indicated cell lines were measured using a Cell Counting Kit-8 (CCK-8). Values are represented as means \pm standard deviations.

Supplementary Table 1: Characteristics of the breast cancer cell lines used in this study

Cell line	ER	PR	HER2	Classification
MCF7	+	+	-	Luminal [18-20]
T-47D	+	+	-	Luminal [18-20]
BT474	+	+	+	Luminal [18-20]
SK-BR-3	-	-	+	HER2-positive ^[18-20]
MDA-MB-231	-	-	-	Triple-negative [18-20]
Hs 578T	-	-	-	Triple-negative [18-20]

Statuses of estrogen receptor (ER), progesterone receptor (PR), and human epidermal growth factor receptor 2 (HER2)/neu as well as breast cancer subtypes are indicated based on previously published data.

Supplementary Table 2: IHC staining scores

% Staining score	% Nuclei staining
0	0%
1	1–4%
2	5–9%
3	10–19%
4	> 20%
5	> 50%
Intensity score	Staining intensity
0	No staining
1	Weak staining
2	Moderate staining
3	Strong staining

Quick score = % Staining score + Intensity score
Giving a range from 0 to 8

Supplementary Table 3: Sequences of the primers used in this study

Gene product	Sense	Antisense
<i>CDH1</i> (E-cadherin)	GTCAGTTCAGACTCCAGCCC	AAATTCACTCTGCCCAGGACG
<i>EPCAM</i> (EpCAM)	CTCCAGAACAATGATGGGCT	CCAGTAGGTTTCTCACTCGCTC
<i>CDH2</i> (N-cadherin)	GGTGGAGGAGAAGAAGACCAG	GGCATCAGGCTCCACAGT
<i>Vim</i> (vimentin)	GTTTCCAAGCCTGACCTCAC	GCTTCAACGGCAAAGTTCTC
<i>ACTA2</i> (α -SMA)	GTGAAGAAGAGGACAGCACTG	CACATACATGGCTGGGACATTG
<i>SNAI2</i> (Slug)	CAAGGACACATTAGAACTCAC	GTGCAGGAGAGACATTCTGGA
<i>SNAI1</i> (Snail)	ACTTCAGTCTCTTCCTTGGAG	TGACATCTGAGTGGGTCTGG
<i>BIRC1</i> (NAIP)	CGTCCCATTGTTGCCAGT	GATCAGTTTGGCCACTCG
<i>BIRC2</i> (cIAP1)	GTGGTGGGAAGCTCAGTAAC	CATCATCATTGCGACCCACA
<i>BIRC3</i> (cIAP2)	AATGCTTTTGCTGTGATGGTG	GCTTGAACCTGACGGATGAAC
<i>BIRC4</i> (XIAP)	GGGGTTCAGTTTCAAGGACAT	CCACAAGGAACAAAAACGATAG
<i>BIRC5</i> (survivin)	GACGACCCCATAGAGGAACAT	GCCAGAGGCCTCAATCCAT
<i>BIRC6</i> (BRUCE)	ATGTGCTTCCAACCCTCCT	GGCTCAGTTTGATTACGC
<i>BIRC7</i> (Ivlin)	CTGGGACCCGTGGGAAGAAC	TCCTGGGCACTTTCAGACTG
<i>BIRC8</i> (ILP2)	GAGACGGTGGACAAGTCCTA	TTGCCACCTGTCTACCGCTT
<i>GAPDH</i>	GATGGCATGGACTGTGGTCA	GCAATGCCTCCTGCACCACC