

Figure S1. Apoptosis and autophagy in HCC-1937 cells after treatment with 10, 20 and 30 nM PTX. (A) Photomicrographs of MDA-MB-231 and HCC-1937 cells exposed to paclitaxel for 24 h. (B) Protein expression of Bcl-2 and Bax in HCC-1937 cells. (C) The semi-quantification of Bcl-2/Bax protein expression in HCC-1937 cells. * $P < 0.05$ vs. 0 nM PTX. (D) The protein expression of P62 in HCC-1937 cells. (E) The semi-quantification of P62 protein expression in HCC-1937 cells. (F) The protein expression of LC3 in HCC-1937 cells. (G) The semi-quantification of LC3-II/LC3-I protein expression in HCC-1937 cells. * $P < 0.05$ vs. 0 nM PTX. PTX, paclitaxel; LC3, light chain 3.

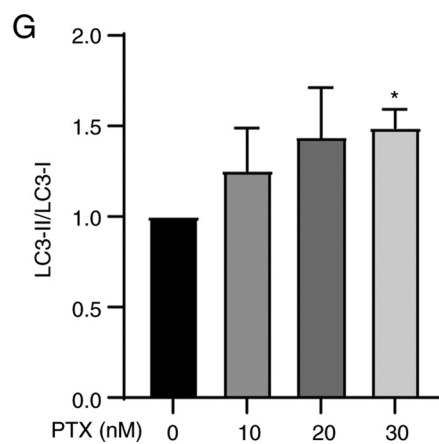
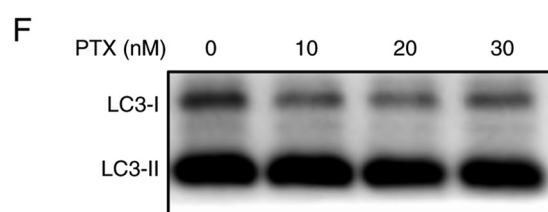
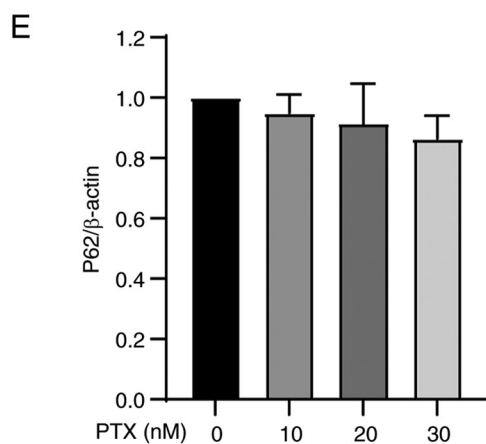
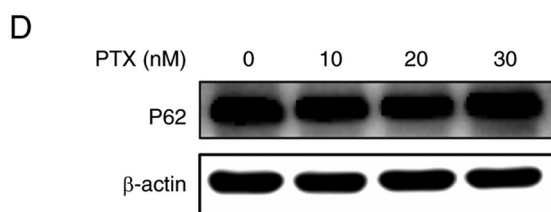
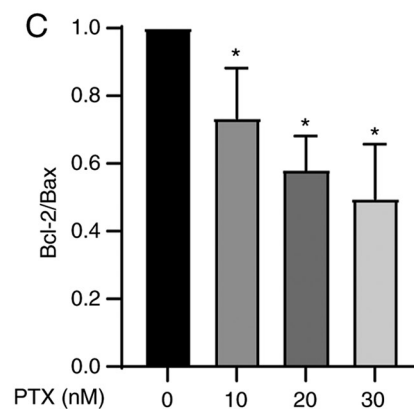
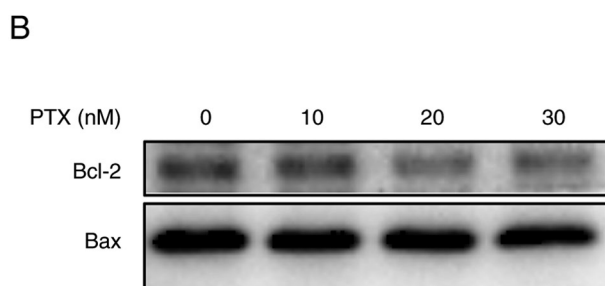
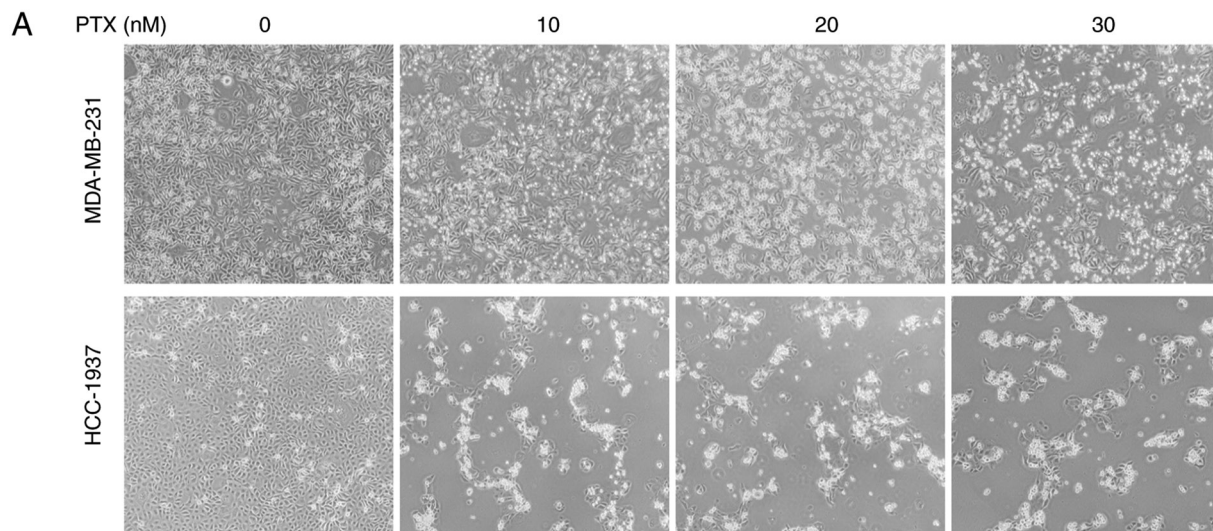


Table SI. Primer sequences for reverse transcription-quantitative PCR.

Primer	Sequence (5'→3')
<i>SESNI</i>	F: CCCCTACATTATCGTCACTACA R: CAAGGTCTATGGGCTAACACT
<i>PTEN</i>	F: TTGACCAATGGCTAAGTGAAG R: AATACCTCCTGTAGGATCTGC
<i>mTOR</i>	F: TTACCGCTGAGTACGTGGAATT R: AATGTTGTCAAAGAAGGGTTGC
<i>EPG5</i>	F: GCTTTTGAACTACTCACGATG R: ACTCTTTGGTAGCGATGATAG
<i>TSC1</i>	F: AAATTCCACCTCCGACGAGA R: TCAGTCTGTCCAGCACTTCCA
<i>AKT</i>	F: CGGCAAGGTGATCCTGGTGAA R: CGGTCTGGGTCTGGAAAGAGTA
<i>LKB1</i>	F: ACATCTGGTCGGCTGGGGTCA R: CGGTTCTGACTCAAGCATCCCTTT
<i>FOXO1</i>	F: ATGGCAGCCAGGCATCTCATA R: CTTGGGTCAGGCGGTTTCATAC
<i>LMNA</i>	F: TAGACCCTGGGTGGGCTCTGTG R: GGAGGCAAGGGCTCTTTAGCG
<i>AMARBI</i>	F: TAATGTGAATAGAGGAACAAGTGGGTAT R: AACAGGTGGACAGGGCAAAGC
<i>DRAM1</i>	F: CAGGGTACTGTTTATTTGCTCCTT R: CATTCAAGGGCTGCTGCTTCTTC
<i>DRAM2</i>	F: ATGATTATGATTCTCAGGGAT R: AAAGTATAGGCATAGGTGTTTT
<i>ATG5</i>	F: CAGAATGCAGGGAACACTAAG R: GATGCTGGTACAATAATGAATGAG
<i>BECN1</i>	F: TGAGGGATGGAAGGGTCTAAG R: CCTGGGCTGTGGTAAGTAATG
<i>VPS34</i>	F: GTACAACGCGAAAGTGGAAT R: AACAACTGTGCAGGCATAAGG
<i>ATG4B</i>	F: TGTGATGGAGGAAATCAGAAGGTTG R: CCTCGTTGATGTCCGTGAGCC
<i>MAP1LC3B</i>	F: CGCTTACAGCTCAATGCTAAT R: ACTGACAATTCATCCCGAAC
<i>GAPDH</i>	F: GGCGCTGAGTACGTCGTGGAGT R: AGTTGGTGGTGCAGGAGGCATT

F, forward; R, reverse; *FOXO1*, forkhead box transcription factor O1; *SESNI*, sestrin 1; *PTEN*, phosphatase and tensin homolog; *mTOR*, mechanistic target of rapamycin kinase; *EPG5*, ectopic P-granules autophagy protein 5 homolog; *TSC1*, TSC complex subunit 1; *AKT*, serine/threonine kinase 1; *LKB1*, serine/threonine kinase 11; *LMNA*, lamin A/C; *AMBRA1*, autophagy and beclin 1 regulator 1; *DRAM1*, DNA damage regulated autophagy modulator 1; *DRAM2*, DNA damage regulated autophagy modulator 2; *ATG5*, autophagy related 5; *VPS34*, class III phosphoinositide 3-kinase vacuolar protein sorting 34; *ATG4B*, autophagy related 4B cysteine peptidase; *BECN1*, beclin 1; *MAP1LC3B*, microtubule associated protein 1 light chain 3β.

Table SII. Pool of three sequences for human *FOXO1* siRNA.

Number	Sense	Antisense
1	GCAUCCAUGGACAACAACAtt	UGUUGUUGUCCAUGGAUGCtt
2	GAAGGGGAUGUGCAUUCUAtt	UAGAAUGCACAUCCCCUUCtt
3	CCACACAGUGUCAAGACAAtt	UUGUCUUGACACUGUGUGGtt

FOXO1, forkhead box transcription factor O1; siRNA, small interfering RNA.