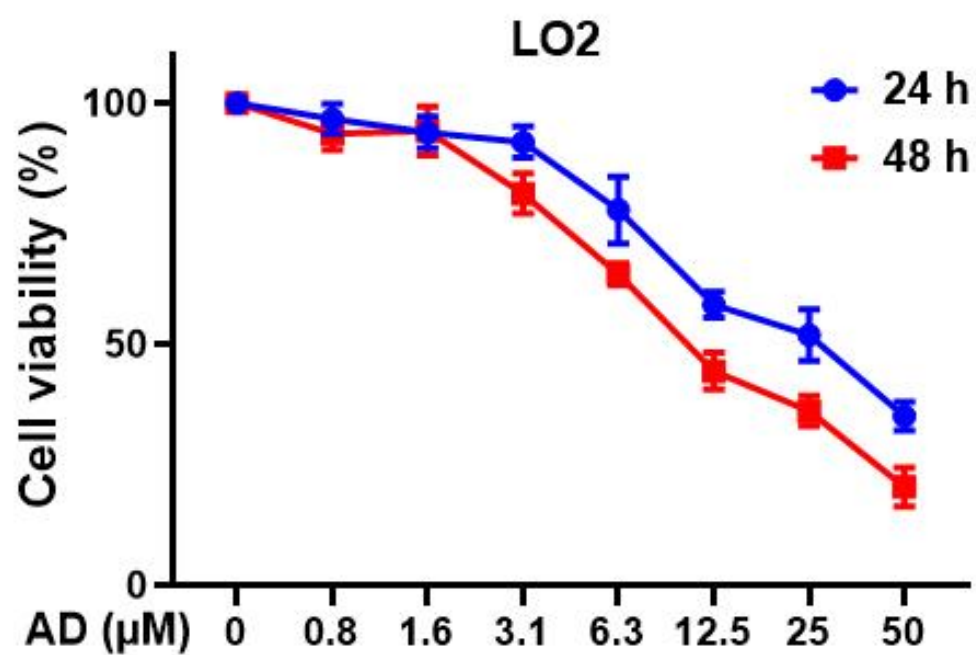
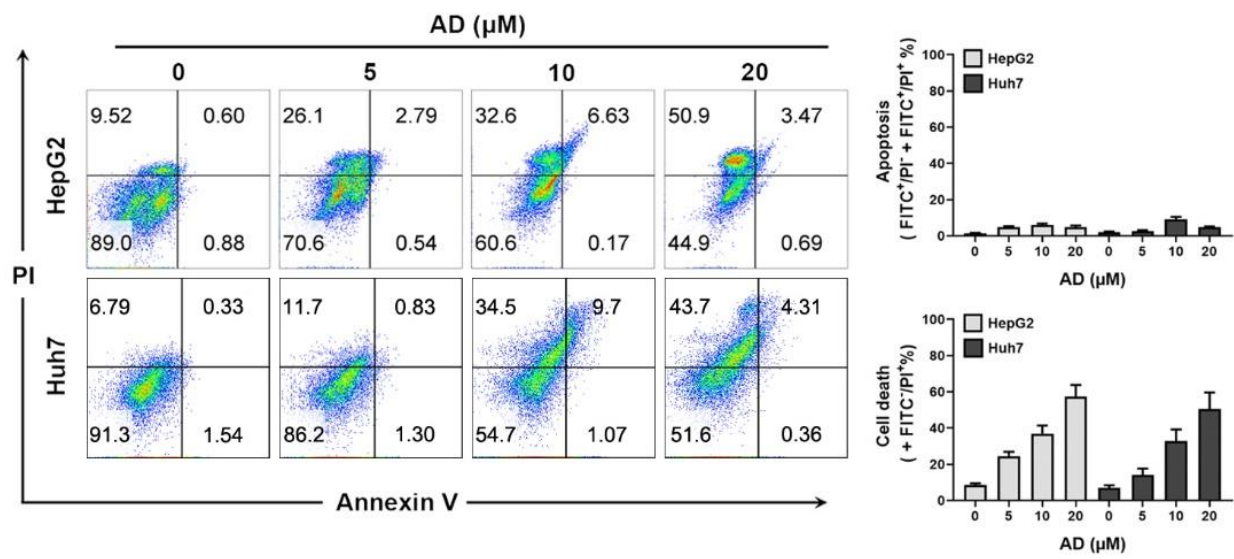
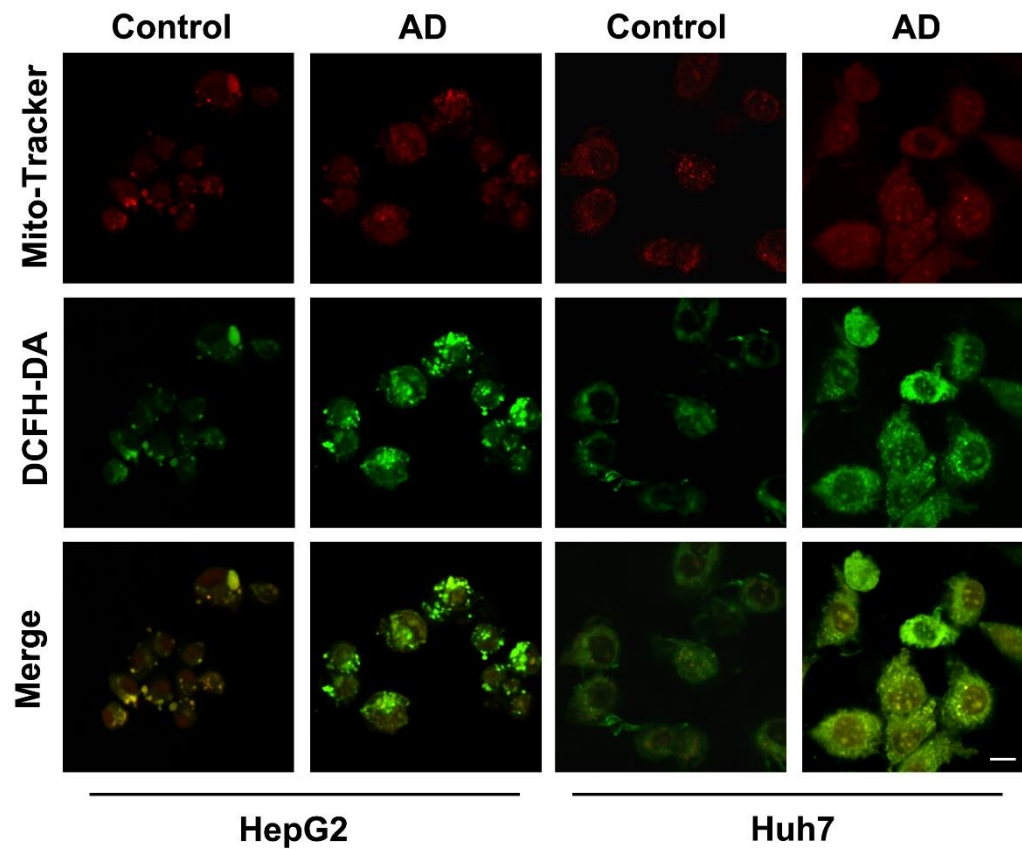




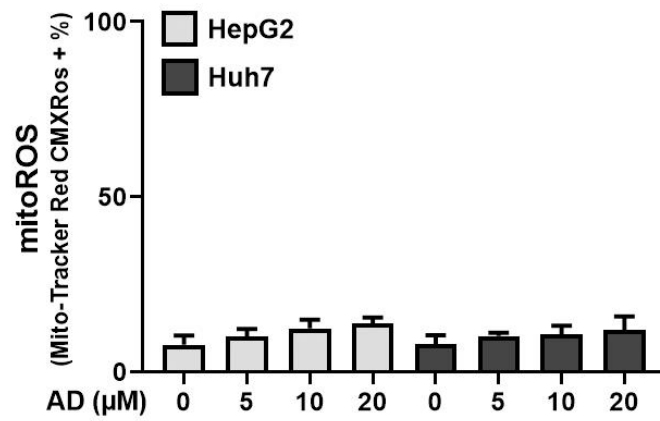
Supplementary Figure 1. MTT assay of LO2 cell line treated with increasing concentration of AD in a time course (24 h and 48 h).



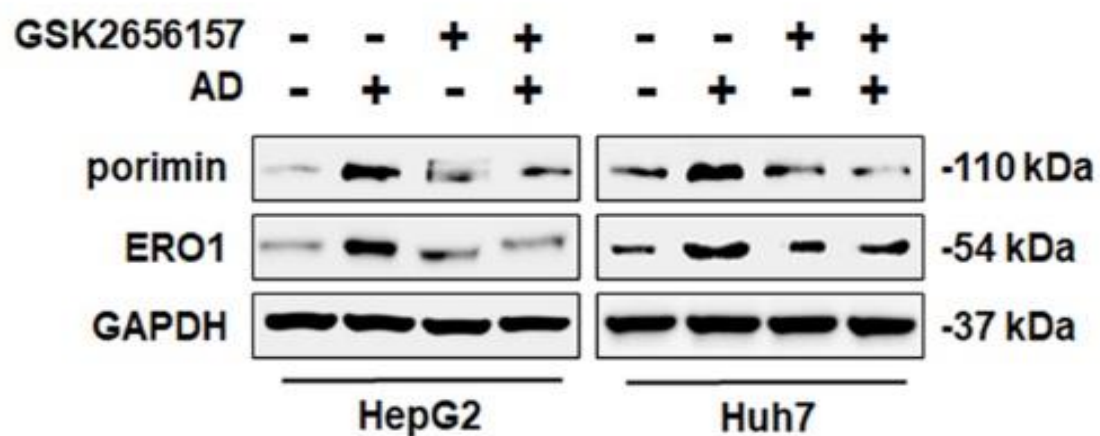
Supplementary Figure 2. Annexin V-FITC/PI staining analysis in HepG2 and Huh7 cells treated with the indicated concentration of AD for 24 h.



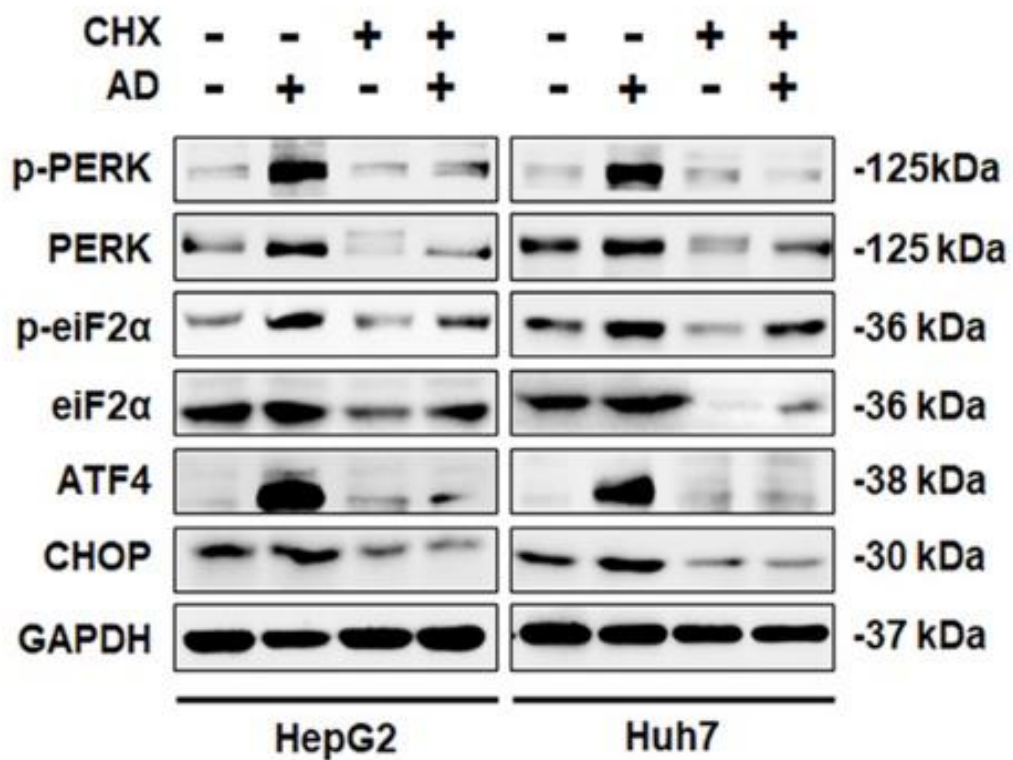
Supplementary Figure 3. Images of Mito-Tracker and DCFH-DA double staining HepG2 and Huh7 cells treated with 20 μ M of AD for 8 h. Scale bar=25 μ m..



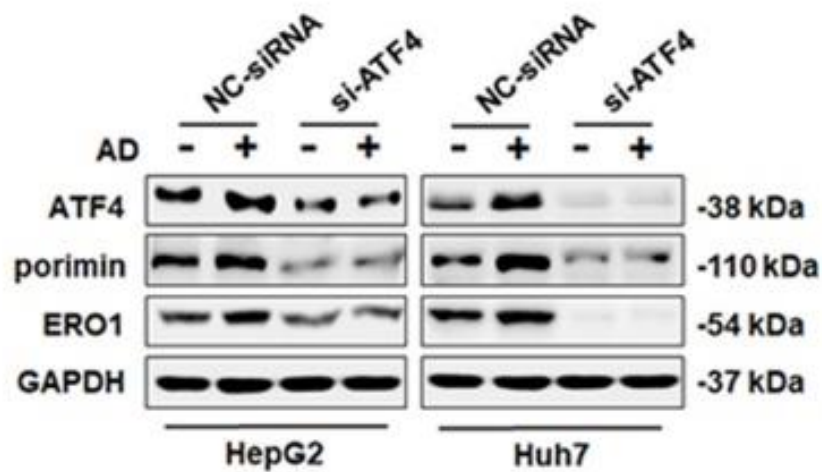
Supplementary Figure 4. The mitoROS levels in HepG2 and Huh7 cells treated with the indicated concentration of AD for 8 h, quantified using Mito-Tracker Red based-flow cytometry.



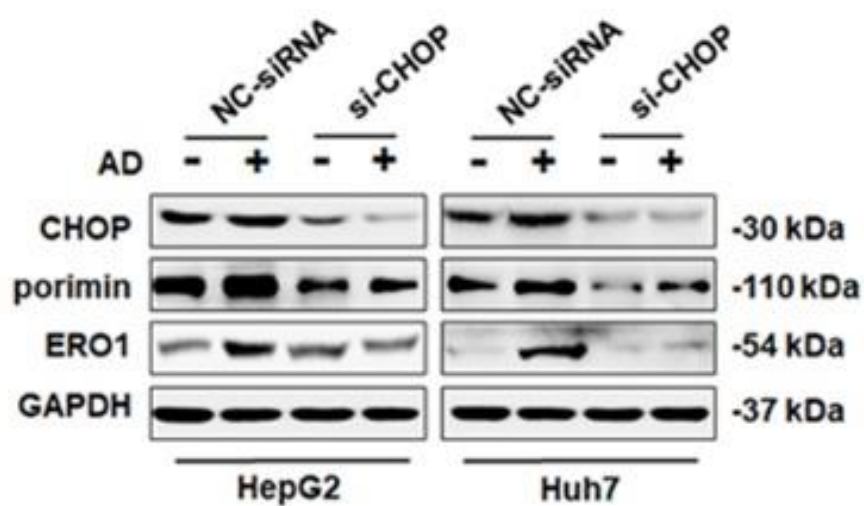
Supplementary Figure 5. Protein expression of porimin and ERO1 in cells exposed to AD (20 μ M) alone or in combination with GSK2656157 (2 μ M) for 8 h.



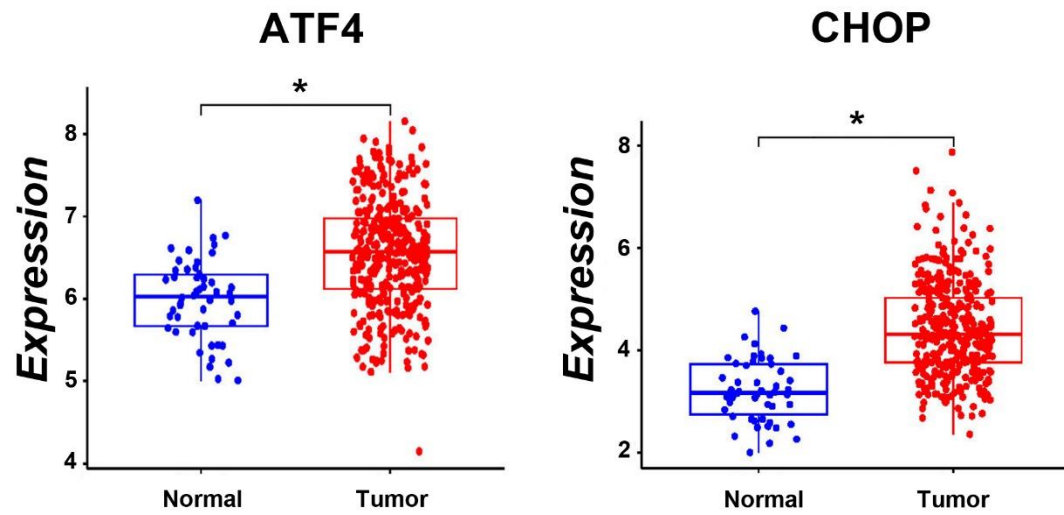
Supplementary Figure 6. Protein expression of the PERK-eIF2 α -ATF4-CHOP pathway in cells exposed to AD (20 μ M) alone or in combination with CHX (20 μ M) for 8 h.



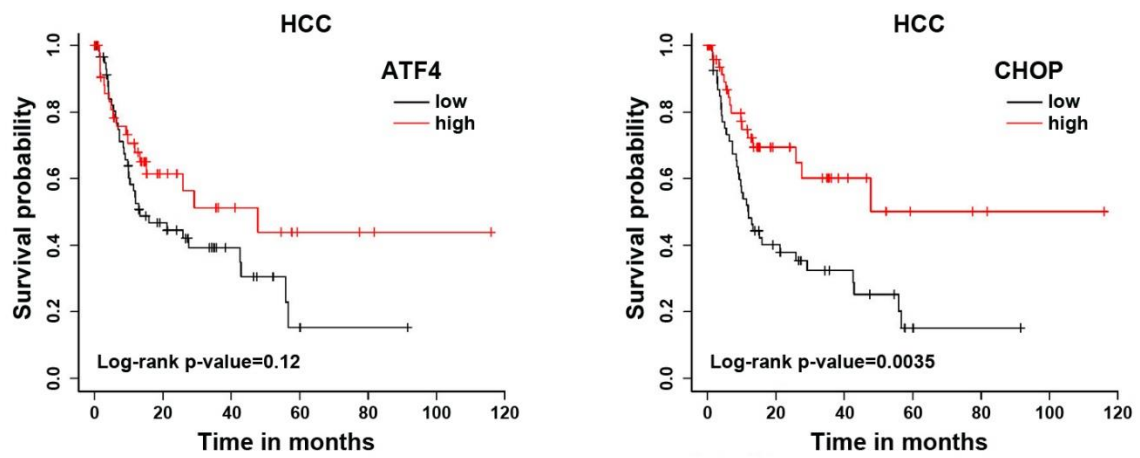
Supplementary Figure 7. Protein expression of porimin and ERO1 influenced by AD (20 μ M) in cells with knockdown of ATF4.



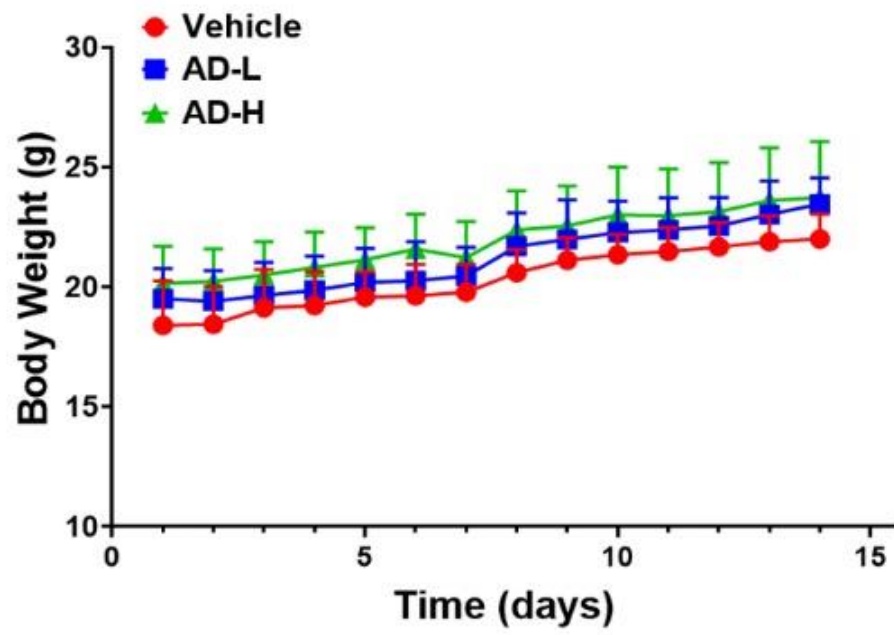
Supplementary Figure 8. Protein expression of porimin and ERO1 influenced by AD (20 μ M) in cells with knockdown of CHOP.



Supplementary Figure 9. Expression of ATF4 or CHOP in normal and tumor tissues was detected in the TCGA database. $*p < 0.05$.



Supplementary Figure 10. Survival analysis comparing high to low expression of ATF4 or CHOP in HCC.



Supplementary Figure 11. The body weights of the mice were monitored throughout the experimental period.

Supplementary Table 1. The sequences of primers used for RT-PCR

mRNA	Sequence(5'→3')	
porimin	Forward primer:	AGCAGCACCGTGAAACCAT
	Reverse primer:	GGTTGTGGTCATCATGGGTG
ERO1	Forward primer:	AAGAGGCCGTGTCCTTTCTG
	Reverse primer:	CCACCAGCAGATCCAATCATC
IRE1 α	Forward primer:	CGGCCTCGGGATTTTTGGA
	Reverse primer:	AGAAAGGCAGGCTCTTCCAC
ATF6 α	Forward primer:	ACCCGTATTCTTCAGGGTGC
	Reverse primer:	CACTCCCTGAGTTCCTGCTG
PERK	Forward primer:	GGAGCAGGGAAGAAAAGGTCA
	Reverse primer:	TGGATGACACCAAGGAACCG

Supplementary Table 2. The IC₅₀ (μM) values of AD on three cell lines

Cell lines	24 h	48 h
HepG2	8.12	4.38
Huh7	9.05	8.31
LO2	21.43	9.94