# Supplementary Materials: SAHA Overcomes 5-FU Resistance in IFIT2-Depleted Oral Squamous Cell Carcinoma Cells

Prabha Regmi, Kuo-Chu Lai, Chung-Ji Liu and Te-Chang Lee

Table S1. Primer sequences for quantitative real-time PCR analysis.

Gene	Forward Primer	Reverse Primer
TS	5′-GGAAGGGTGTTTTGGAGGAGTT-3′	5′-AGATTTTCACTCCCTTGGAAGACA-3′
TP	5′-GCTGGAGTCTATTCCTGGAT-3′	5′-ACTGAGAATGGAGGCTGTGATG-3′
OPRT	5′-GCGTCTTCTGAGTCAGGTTG-3′	5′-GCATCTGCTAGCTGCAACAG-3′
TK1	5′-GTTTTTCCCTGACATCGTGGA-3′	5′-CGAGCCTCTTGGTATAGGCG-3′
GAPDH	5′-GGAGTCCCTGCCACACTCA-3′	5′-GCCCCTCCCCTCTTCAAG-3′
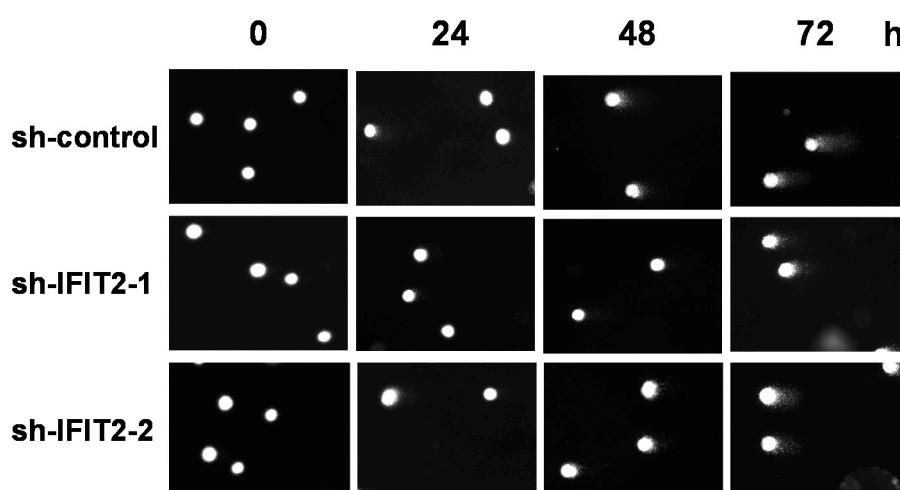
Figure S1. Representative images of Comet assay. Growing sh-control, sh-IFIT2-1 and sh-IFIT2-2 cells were treated with 10Mm 5FU for 12, 24, 48 and 72 h. At the end of treatment, the cells were harvested and subjected to a comet assay as described in the Materials and Methods.

No treatment
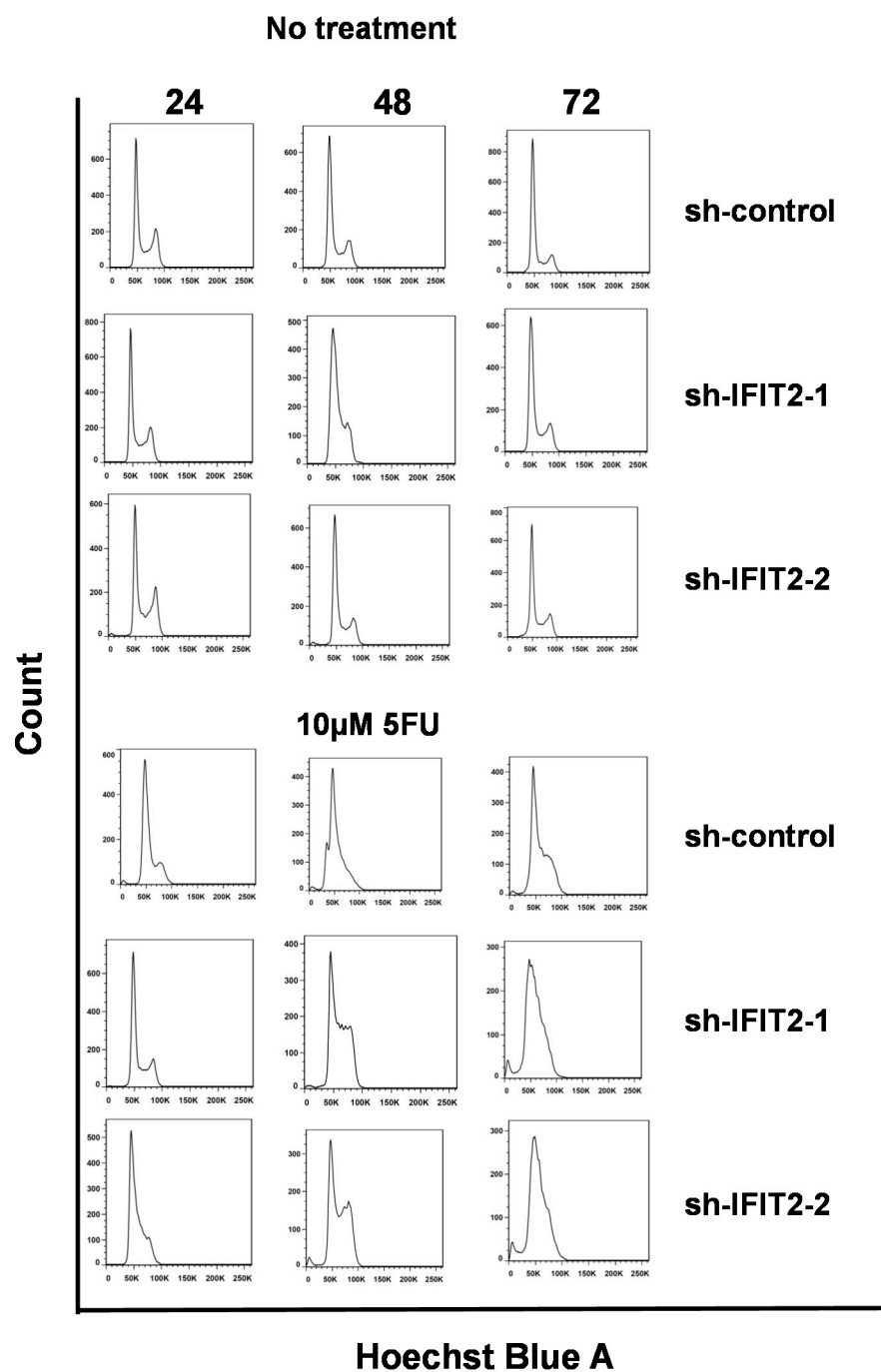
Figure S2. Representative histograms of cell-cycle analysis. Growing sh-control, sh-IFIT2-1 and sh-IFIT2-2 cells were treated with 10 μM 5-FU for 24, 48 and 72 h. and the cell-cycle analysis was performed using the Hoechst dye as described in methods.
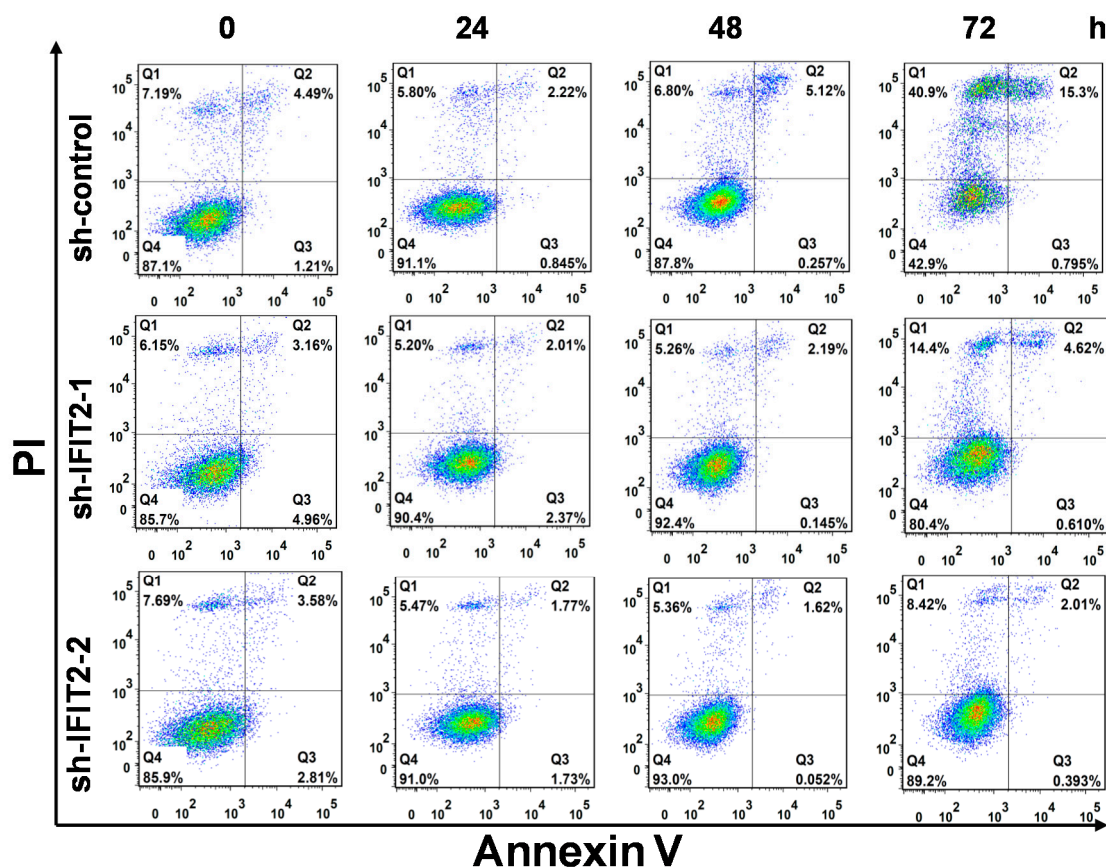
Figure S3. Representative image of annexin V staining for apoptosis analysis using flow cytometry. Cells were treated with 5-FU for 24, 48 and 72 h, stained with annexin V-APC and PI, and subjected to flow cytometric analysis. Q1, Q2, Q3, Q4 represent necrosis, late apoptosis, early apoptosis and live cells respectively.
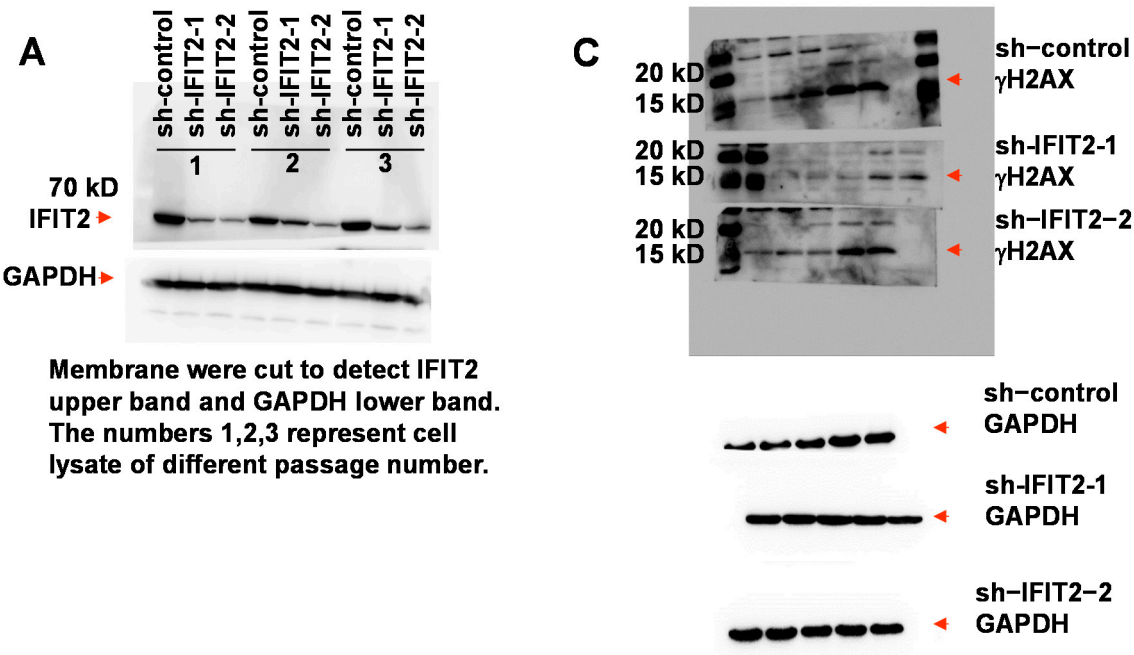
Figure 1

A
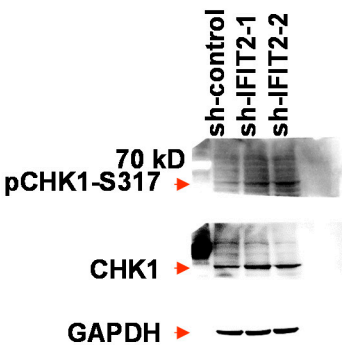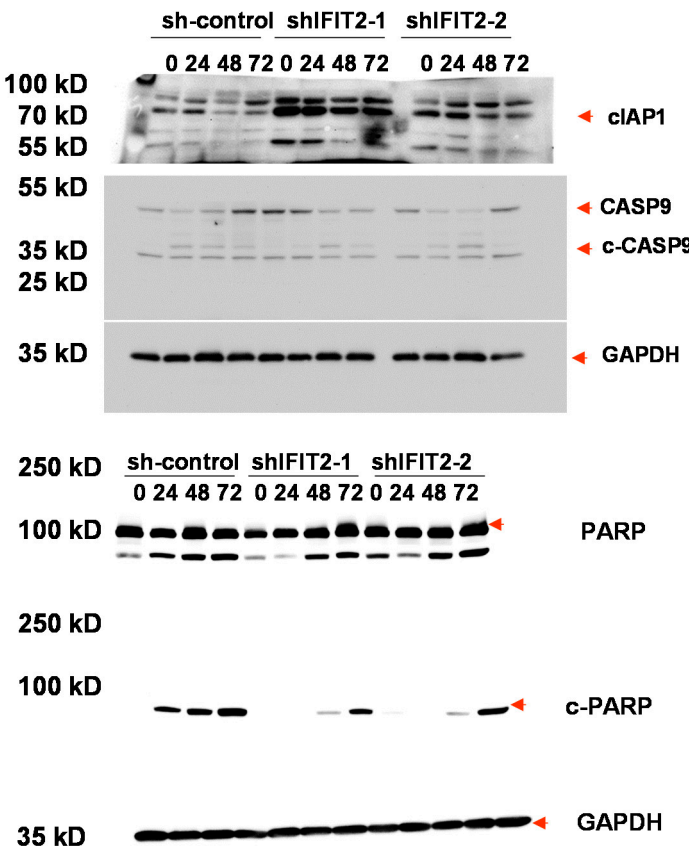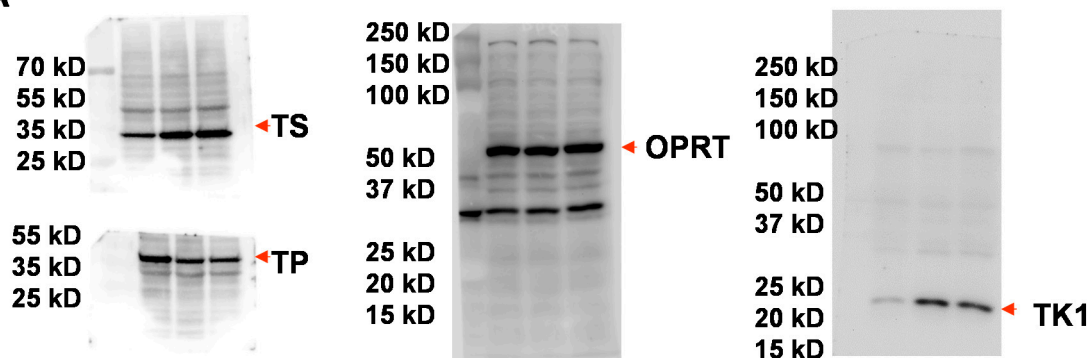
70 kD
IFIT2 ▶

GAPDH▶

sh-control
sh-IFIT2-1
sh-IFIT2-2
sh-control
sh-IFIT2-1
sh-IFIT2-2
sh-control
sh-IFIT2-1
sh-IFIT2-2

1   2   3

Membrane were cut to detect IFIT2 upper band and GAPDH lower band. The numbers 1,2,3 represent cell lysate of different passage number.

C

20 kD
15 kD   sh-control γH2AX

20 kD
15 kD   sh-IFIT2-1 γH2AX

20 kD
15 kD   sh-IFIT2-2 γH2AX

sh-control GAPDH

sh-IFIT2-1 GAPDH

sh-IFIT2-2 GAPDH

Figure 2B

sh-control
sh-IFIT2-1
sh-IFIT2-2

70 kD
pCHK1-S317 ▶

CHK1 ▶

GAPDH ▶

Figure 3C

sh-control shIFIT2-1 shIFIT2-2
0 24 48 72 0 24 48 72 0 24 48 72

100 kD
70 kD
55 kD   ◀ cIAP1

55 kD   ◀ CASP9

35 kD   ◀ c-CASP9
25 kD

35 kD   ◀ GAPDH

250 kD   sh-control shIFIT2-1 shIFIT2-2
0 24 48 72 0 24 48 72 0 24 48 72

100 kD   ◀ PARP

250 kD

100 kD   ◀ c-PARP

35 kD   ◀ GAPDH

Figure 4

A

B

Figure 5A

Label 1,2,3,4 represent different siRNA used as follows:
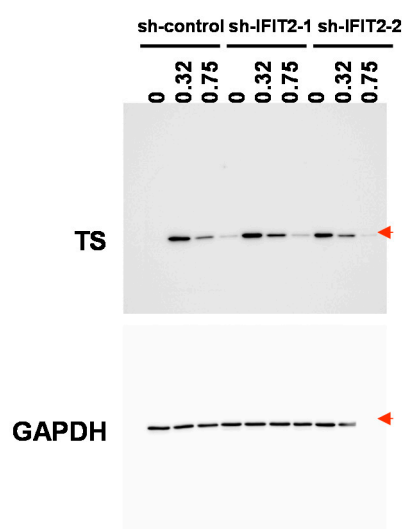1. **CONTROL siRNA**
2. **TS siRNA**
3. **TK1 siRNA**
4. **TS+TK1 siRNA**
24h panel represents transfection efficiency after 24h

Figure 7A

Figure S4. Original images of Western blots.

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.