Figure EV1. Knockdown of CSAG2 impairs

Expression of CSAG2 in patients from indicated

survival. Data are from TCGA and visualized by

cancer types correlates with poor overall

B, C Knockdown of CSAG2 in HCT116 (B) or A375 (C)

cells decreases xenograft tumor growth in mice. Tumor weights (n = 6 for each group)

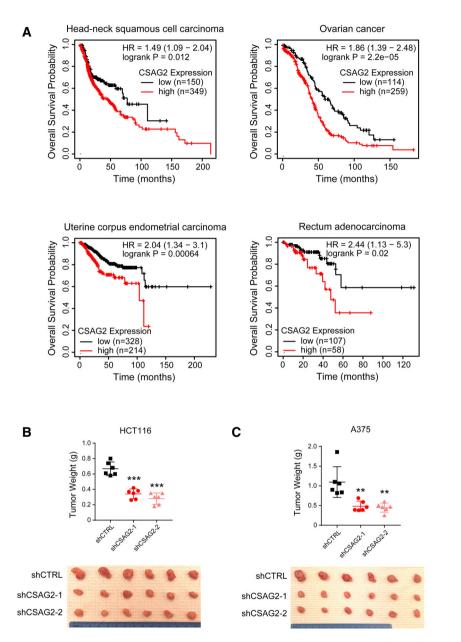
are shown. ***P* < 0.01; ****P* < 0.0001;

unpaired, two-tailed Student's t-test.

xenograft tumor growth.

kmplotter.

А



Expanded View Figures

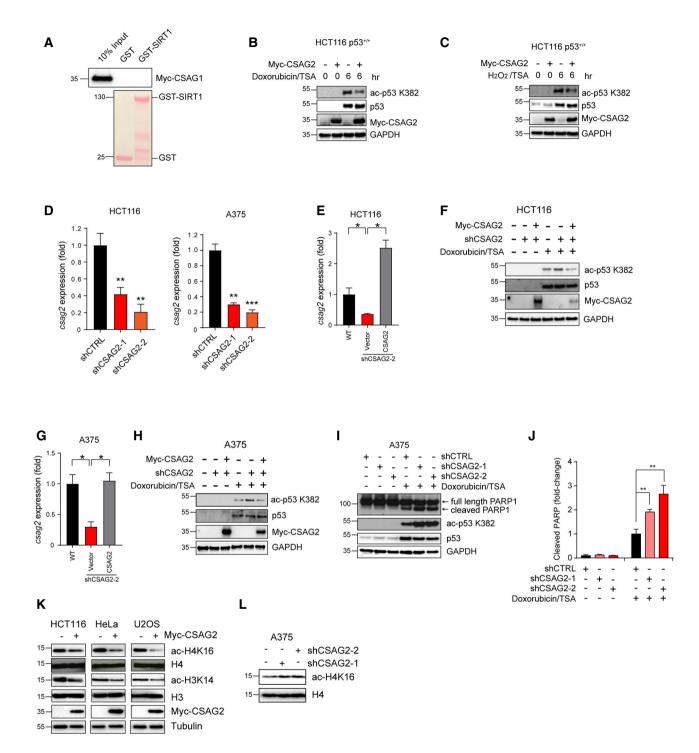




Figure EV2. CSAG2 promotes p53 and H3/4 deacetylation.

- A CSAG1 does not bind SIRT1 in vitro. Myc-tagged CSAG1 was in vitro translated followed by in vitro binding assays with recombinant GST or GST-SIRT1, SDS–PAGE, and immunoblotting for anti-Myc.
- B, C Expression of CSAG2 decreased p53 ac-K382 levels in HCT116 cells. Cells were treated with either 1 μ M Doxorubicin (B) or 1 mM H₂O₂ (C) and 0.4 μ M TSA for indicated times. Cells were then harvested and blotted for the indicated proteins.
- D CSAG2 mRNA levels were determined by qRT-PCR (n = 3 biological replicates) in the indicated cell types.
- E-H Re-expression of CSAG2 rescued p53 ac-K382 levels in CSAG2 knockdown stable cell lines. Myc-CSAG2 was transfected in HCT116 (E-F) or A375 (G-H) CSAG2 knockdown stable cell lines. CSAG2 mRNA levels were determined by qRT-PCR (n = 3 biological replicates) (E and G). Cells were treated with 1 μ M doxorubicin/ 0.4 μ M TSA for 6 h and then blotted for the indicated proteins (F and H).
- I, J A375 cells were transiently transfected with the indicated shRNAs for 48 h before treatment with 1 μ M doxorubicin/0.4 μ M TSA for 6 h. Cell lysates were collected and blotted for the indicated proteins (I). Quantitation (n = 3 biological replicates) of normalized cleaved PARP levels is shown (J).
- K HeLa, U2OS, or HCT116 cells were transfected with Myc-Vector (-) or Myc-CSAG2 (+) for 48 h. Cell lysates were blotted for the indicated proteins.
- L Knockdown of endogenous CSAG2 in A375 cells increased ac-H4K16 levels. Cell lysates were blotted for the indicated proteins.

Data information: Data are represented as the mean \pm SD. *P < 0.05, **P < 0.01, ***P < 0.001; unpaired, two-tailed Student's *t*-test. Source data are available online for this figure.