Fig. S5



Fig. S5. Ablation of STIM proteins inhibits Hh signaling and SMO cholesterylation.

a. Validation of two monoclonal Stim 1/2 double knockout cells comfirmed by immunoblotting.

b. Short-hairpin RNA (shRNA)-mediated knockdown of *Stim1/2* decreased SMO cholesterylation.

c. Knockdown of *Stim1*, *Stim2* or double knockdown decreased *Gli1* expression upon ShhN treatment. p=1.020E-4, 0.003 and 9.886E-5 (from left to right). Two sample T-test.

d-e. Knockdown efficiencies of *Stim1* and *Stim2* shRNAs validated by qPCR.

f. ShhN decreased Ca²⁺ concentration in the ER. NIH3T3 cells stably expressing the ER Ca²⁺ sensor GCEPIA-SNAP-ER were seeded in 60-mm dishes. 10^4 cells were analyzed in each condition. In **c**, **d** and **e**, data were presented as means \pm SD.