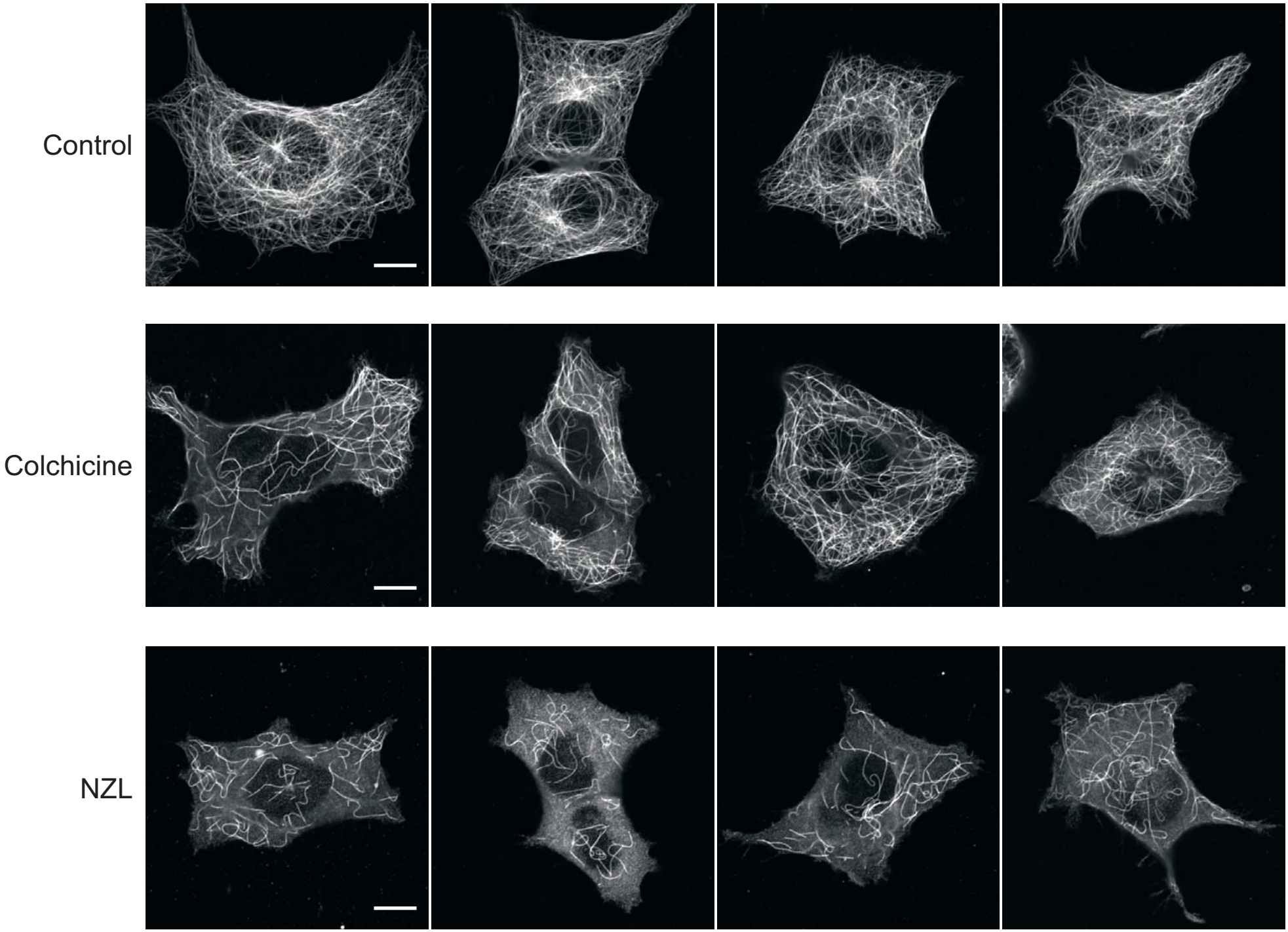
and in the same cells following store depletion with thapsigargin (Tg). Data are reported as mean ± SEM; p-values are based on t-test. Scalebars = 10 μm.

Figure 9. Colchicine potentiates but does not activate SOCE in cells overexpressing Stim1. A) EYFP-Stim1-expressing HEK293 cells were treated with 1.0 μM CPA alone (Control; black trace) or with CPA and 100 μM colchicine (red trace) for 20 min in nominally Ca^{2+}-free extracellular solution, followed by addition of 1.8 mM extracellular Ca^{2+} to reveal SOCE. Also shown are cells treated with colchicine alone (blue trace). Each trace represents the average response of all cells on a single coverslip (20-30 cells). B) The average difference between the peak 340/380 value following Ca^{2+} addition and the 340/380 value just prior to Ca^{2+} addition was calculated for CPA-treated control (n = 64 cells, 3 coverslips) and colchicine-treated (n = 97 cells, 3 coverslips) cells for experiments performed as described in (A). Data are reported as mean ± SEM; p-value is based on t-test.

Supplementary Figure 1. Effects of microtubule depolymerizing agents on microtubule morphology. Wildtype HEK293 cells were treated for 20 minutes with 10 μM nocodazole (NZL), 100 μM colchicine, or left untreated (control), and were then fixed and immunostained for α-tubulin. Images were then acquired by confocal microscopy. Shown are four representative cells for each condition. Scalebars = 10 μM.

Reference List



Supplemental Figure 1