



**Figure 6. Enhanced Sensitivity to Doxorubicin Is Mediated by Caspase-8 Activation**

(A) VIP scores for predicting apoptosis plotted for each cell line-specific PLS model. VIP score >1 indicates important  $x$  variables that predict  $y$  responses, whereas signals with VIP scores <0.5 indicate unimportant  $x$  variables.

(B and C) Model-generated predictions of apoptosis with (blue) or without (red) caspase-8 activation 8 hr after the indicated treatments in BT-20 (B) and 453 (C). (D and E) Western blot verifying caspase-8 knockdown in BT-20 (D) and 453 (E).

(F and G) Measured apoptosis 8 hr after the indicated treatment in cells expressing control RNA or caspase-8 siRNA. (F) BT-20. (G) 453. In both (F) and (G), apoptotic values represent mean response  $\pm$ SD from both siRNAs, each in duplicate.