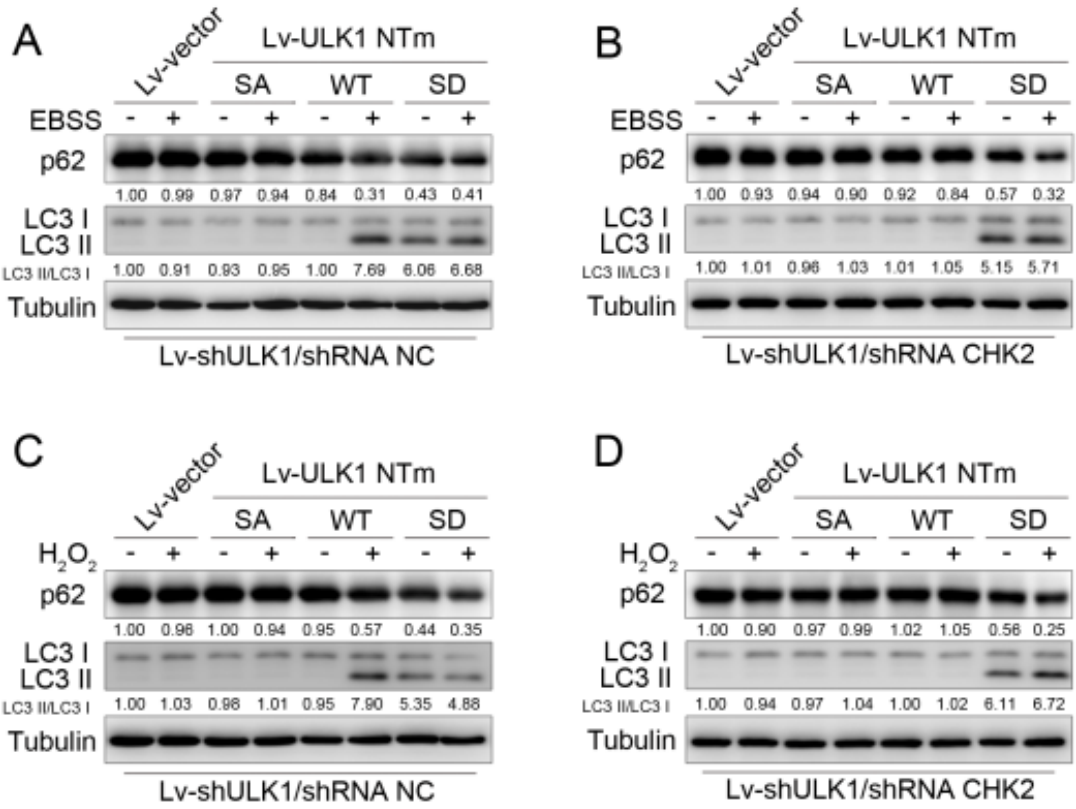

Figure S1. CHK2-mediated ULK1 phosphorylation promotes autophagy. (**A**,**B**) Western blot analysis of p62 and LC3 in HEK293 cells with reconstituted expression of ULK1 WT, S556A mutant, or S556D mutant treated with EBSS for 3 h with (**A**) or without (**B**) CHK2. (**C**,**D**) Western blot analysis of p62 and LC3 in HEK293 cells with reconstituted expression of ULK1 WT, S556A mutant, or S556D mutant treated with H_2O_2 (500 μM) for 3 h with (**D**) or without (**E**) CHK2.

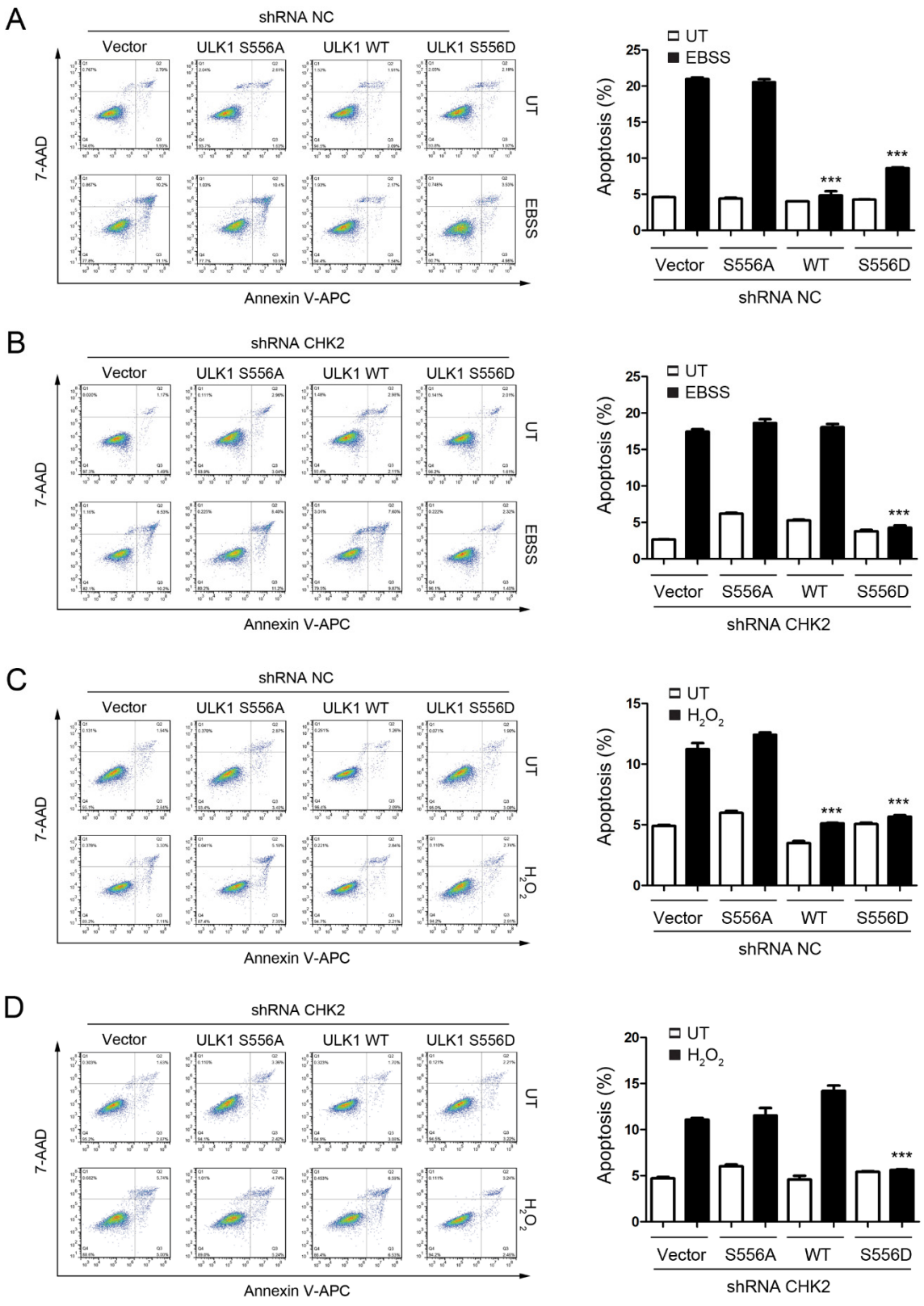

Figure S2. CHK2-ULK1 mediated autophagy protects cells against metabolic stress-induced cell death. (**A**,**B**) Flow cytometry analysis of apoptosis was performed in HEK293 cells expressing the

indicated plasmids treated with EBSS for 8 h with (**A**) or without (**B**) CHK2. The results from three independent experiments are presented as mean ± SEM. *** $p < 0.001$ compared to ULK1 S556A treated with EBSS. (**C**,**D**) Flow cytometry analysis of apoptosis was performed in HEK293 cells expressing the indicated plasmids treated with H_2O_2 (500 μM) for 6 h with (**C**) or without (**D**) CHK2. The results from three independent experiments are presented as mean ± SEM. *** $p < 0.001$ compared to ULK1 S556A treated with H_2O_2 (500 μM) stimulation.

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