Fig. S1

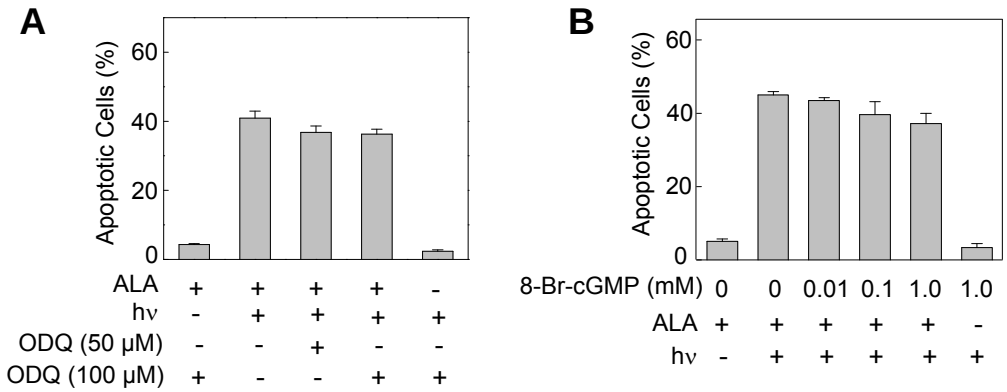

Figure S1. Effects of a soluble guanylyl cyclase inhibitor or cyclic GMP supplementation. (A) WT COH-BR1 cells were preincubated with ALA in the absence or presence of sGC inhibitor ODQ at 50 μM or 100 μM. The cells were then exposed to a 2 J/cm2 light fluence followed by 20 h of dark incubation, after which apoptotic count was determined by Ho/PI staining. ODQ was maintained at the indicated concentrations during and after irradiation. (B) In a separate experiment, cells were preincubated with ALA in the absence or presence of 10 μM, 100 μM, or 1 mM 8-Br-cGMP and then irradiated (2 J/cm2). After 20 h of dark incubation, apoptosis was assessed as described in (A). Means ± SD of data from 3 separate experiments are plotted.

Fig. S2

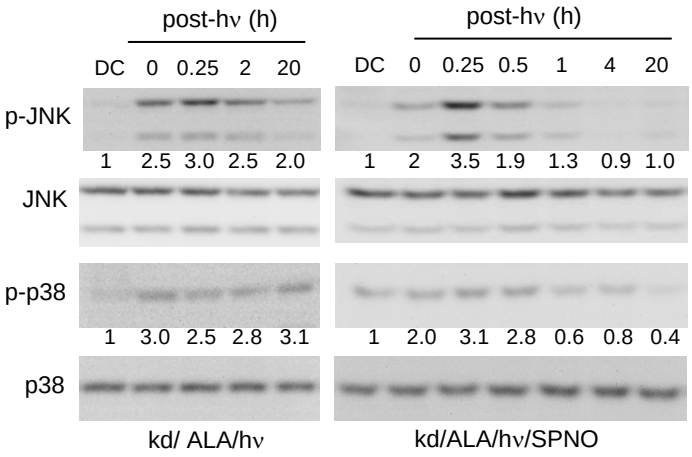

Figure S2. Effect of exogenous NO on extent of JNK and p38 activation in photostressed iNOS-kd cells. ALA-treated COH-BR1 iNOS-kd cells were irradiated (1 J/cm2) in the absence (A) or presence (B) of 0.1 mM SPNO and Western blot-analyzed for level of JNK and p38 phosphorylation at the indicated post-irradiation times. Number below each lane for p-JNK and p-p38 represents band intensity normalized to total JNK and p38, respectively, and relative to DC. Data are from one experiment representative of two for each situation.

Fig. S3

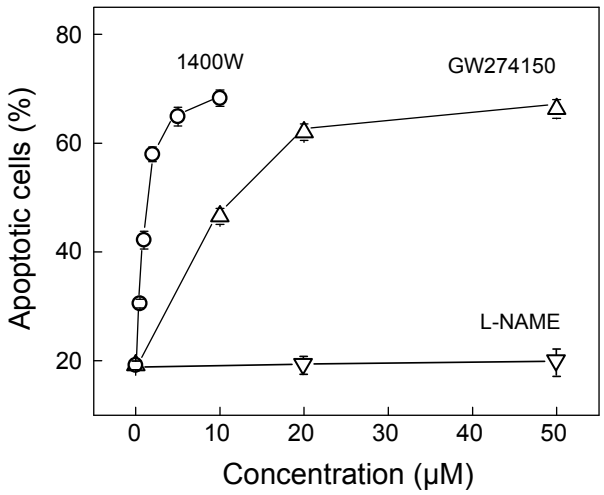

Figure S3. Effects of NOS inhibitor on ALA/light-induced apoptosis of MDA-MB-231 cells. Cells in DME medium were treated with 1 mM ALA for 45 min in the absence or presence of 10 μM 1400W (○), 50 μM GW274150 (△), or 1 mM L-NAME (▽), and then exposed to a 0.5 J/cm2 light fluence. After 20 h of dark incubation in DME/1% serum, cells were stained with Ho/PI and examined by fluorescence microscopy. Plotted apoptosis levels are means ± SD of values from three replicate experiments.