

## Eclalbasaponin I causes mitophagy to repress oxidative stress-induced apoptosis via activation of p38 and ERK in SH-SY5Y cells

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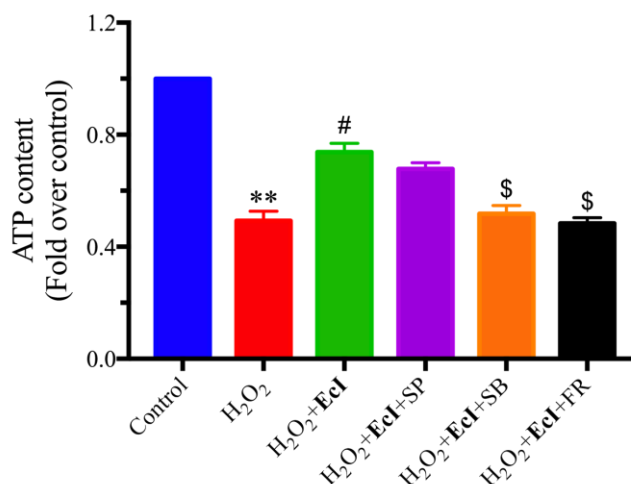
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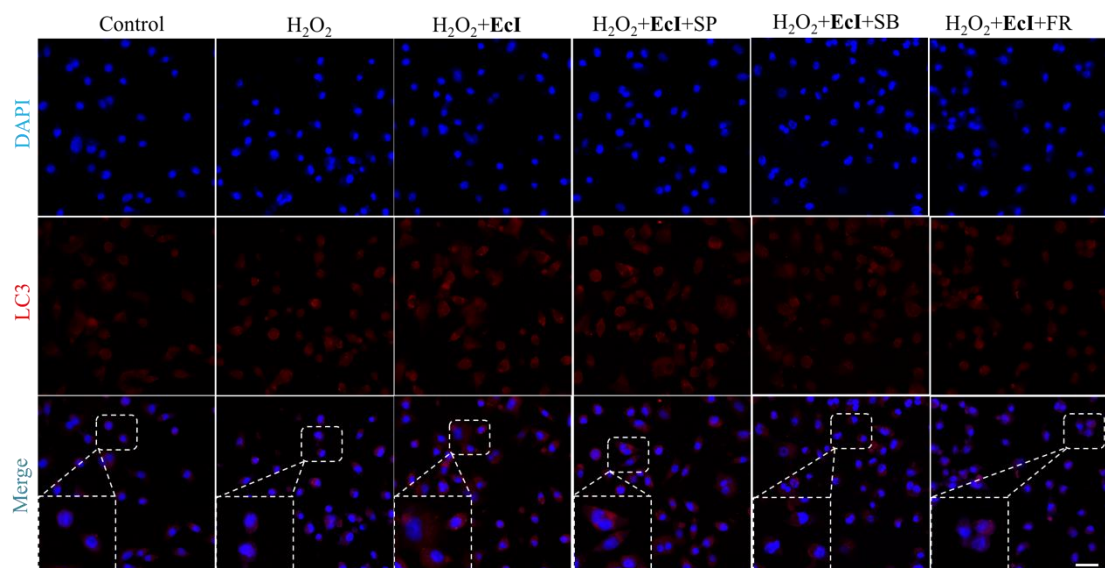
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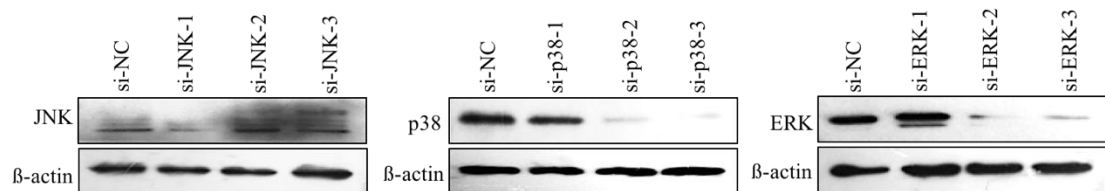
### Supporting Information



**Figure S1.** Cells were pre-treated with SP, SB or FR and cultured with Ecl (50  $\mu$ M) prior to 200  $\mu$ M H<sub>2</sub>O<sub>2</sub>. The ATP levels were quantified in SH-SY5Y cells. Data are presented as means  $\pm$  S.D. (n=3). \*\* $p$ <0.01 vs. control group, # $p$ <0.05 vs. H<sub>2</sub>O<sub>2</sub> treated group. \$ $p$ <0.05 vs. (Ecl, 50  $\mu$ M + H<sub>2</sub>O<sub>2</sub>, 200  $\mu$ M) group.



**Figure S2.** Cells were pre-treated with SP, SB or FR and cultured with Ecl (50  $\mu$ M) prior to 200  $\mu$ M H<sub>2</sub>O<sub>2</sub>. The distribution of LC3 was investigated by immunofluorescence analysis. The scale bar represents 50  $\mu$ m.



**Figure S3.** Cells were transfected with negative control siRNA (si-NC) or siRNA targeting JNK (si-JNK), p38 (si-p38), or ERK (si-ERK) followed by Western blot analysis. The specific sequences si-JNK-1, si-p38-3 and si-ERK-2 were used in following assays. NC means negative