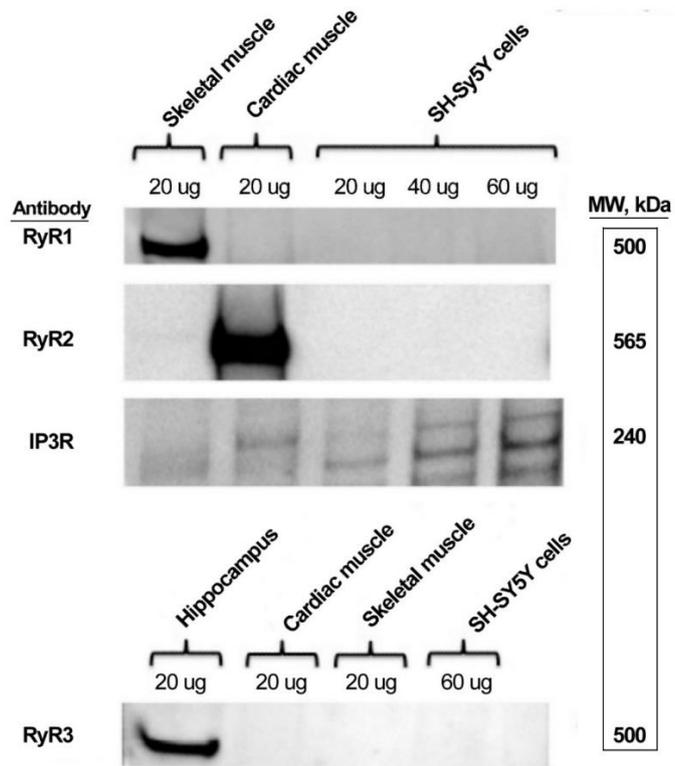
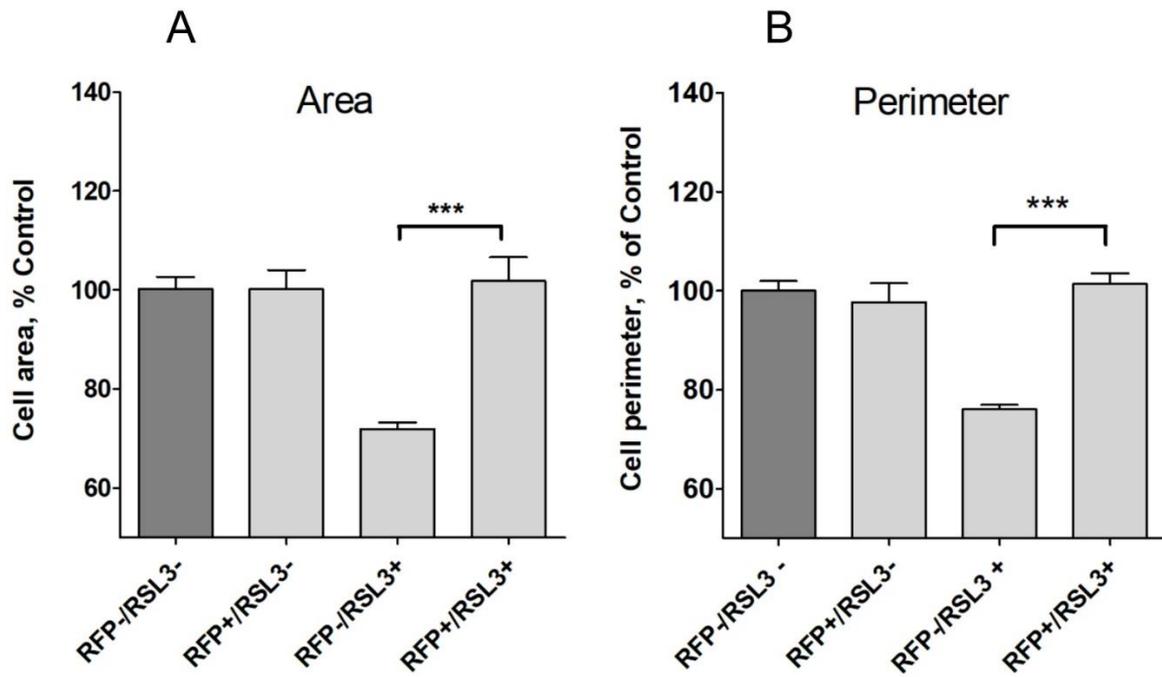


Supplemental Figure 1.



**Supplemental Figure 1.** Western blot analysis of RyRs expression in SH-SY5Y cells. Representative Western blots of RyR1, RyR2, RyR3 and IP3R assessed in SH-SY5Y cells and positive controls tissues: skeletal muscle for RyR1 expression; cardiac muscle for RyR2 expression and hippocampus for RyR3 expression.

Supplemental Figure 2.



**Supplemental Figure 2.** Estimation of area (A) and perimeter (B) of RFP+ and RFP- cells treated or not with RSL3. Values represent mean  $\pm$  SEM. Between 31 and 123 cells were evaluated per experimental condition from 2 independent experiments. \*\*\*P= 0.001 comparing the RFP-/RSL3+ and RFP+/RSL3+ conditions. No significant changes were detected between the RFP-/RSL3-, RFP+/RSL3- and RFP+/RSL3+ conditions.