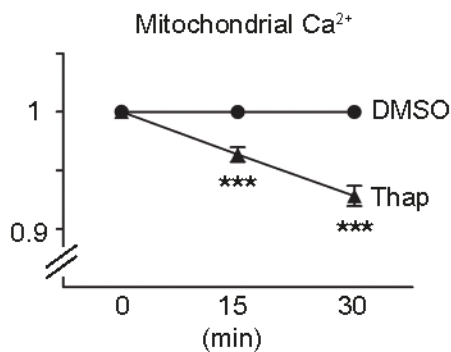
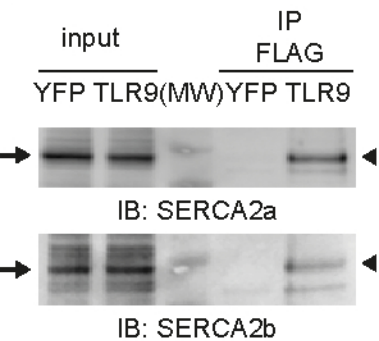


A



B



C

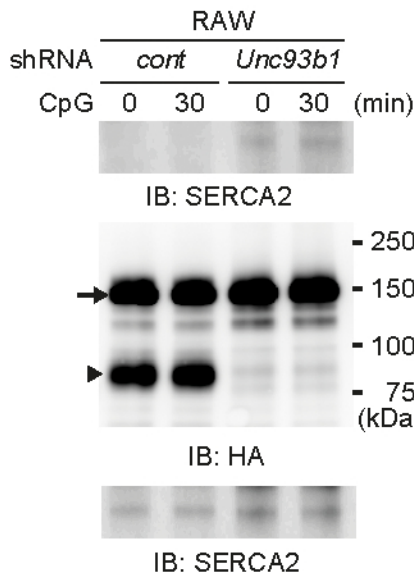


Figure S2

(A) Measurement of $[Ca^{2+}]_i$ in GCaMP2-mt transfected cardiomyocytes after administration of control vehicle (DMSO; n=19, circle) or thapsigargin (500 ng/ml, n=22, triangle). $[Ca^{2+}]_i$ significantly dropped at 15 and 30 min after thapsigargin administration. Error bars indicate SEM. *** $p < 0.001$ compared with the control. (B) TLR9 associated with both SERCA2 isoforms. YFP-HA-FLAG or TLR9-HA-FLAG encoded adenoviruses were transfected in rat cardiomyocytes, lysed and immunoprecipitated with FLAG M2 agarose, then detected by the isoform specific SERCA2 antibodies. Arrows; SERCA2a or b in 1% input of the total lysates, Arrowhead; co-immunoprecipitated SERCA2a or b, respectively. (C) The interaction between TLR9 and SERCA2 was found in *Unc93b1* knocked-down RAW264.7 cells, while no such interaction in control cells. TLR9 were stably transfected in RAW264.7 cells, in which shRNA for *Unc93b1* or control had been already transfected. The cell lysate were immunoprecipitated with anti-FLAG antibody at 0 and 30 min after CpG stimulation, immunoblotted with SERCA2 antibody. 1% of whole cell lysates were used as input. The molecular weight of overexpressed TLR9 matched with the full-length form (arrow) and the cleaved form (arrowhead) in the control cells, while only full-length form was found in *Unc93b1* knocked-down RAW264.7 cells.