## **Figure Legends of Supplementary Information**

Figure S1. Inhibition of IP<sub>3</sub>-mediated transient  $Ca^{2+}$  increases by xestospongin C and IP<sub>3</sub>-sponge, and involvement of DAG in Ang II-induced sustained  $Ca^{2+}$  responses in cardiomyocytes.

(**A-D**) Effects of xestospongin C (XestC), IP<sub>3</sub>-sponge and DGKβ on Ang II-induced transient increases in  $[Ca^{2+}]_i$ . (**A**) Typical traces for  $Ca^{2+}$  responses upon Ang receptor stimulation with Ang II (100 nM) in  $Ca^{2+}$ -free Tyrode solution. (**B**) Peak changes of increase in  $[Ca^{2+}]_i$ . Cells were treated with XestC (20 µM) for 30 min before the addition of Ang II. (**C**) Representative time courses of the spontaneous  $Ca^{2+}$  responses ((-) Ang II) and Ang II-induced increases in the frequency of  $Ca^{2+}$  oscillations ((+) Ang II) in Control and DGKβ-expressing cells. The digital images were obtained every 1 sec during 3 min before Ang II stimulation ((-) Ang II) and 25-28 min after Ang II stimulation ((+) Ang II). (**D**) Effects of DGKβ on the increase in the frequency of  $Ca^{2+}$  oscillations by Ang II stimulation. Number of  $Ca^{2+}$  spikes per minute was calculated by counting the number of spikes during 3 min measurement. \*\*\*; *P* < 0.001 vs Ang II stimulation of control cells. \*; P < 0.05 vs Control. NS, no significance from Control.



Supplementary Figure S1 Onohara et al.