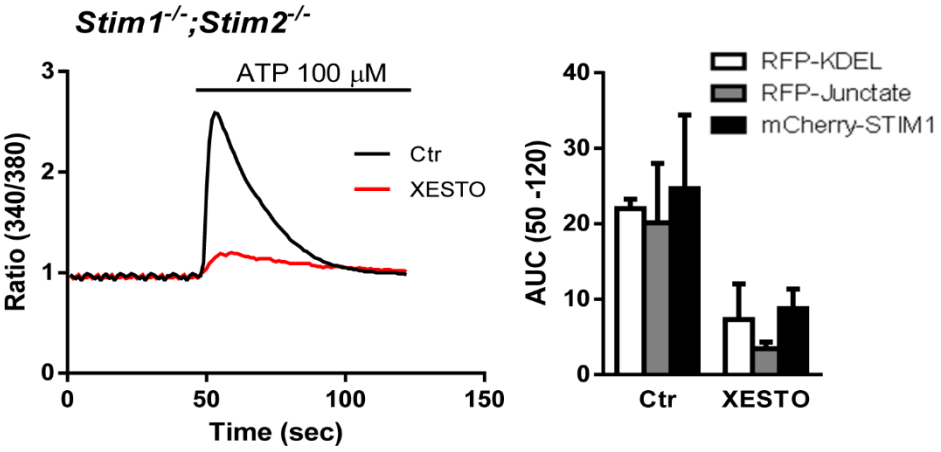
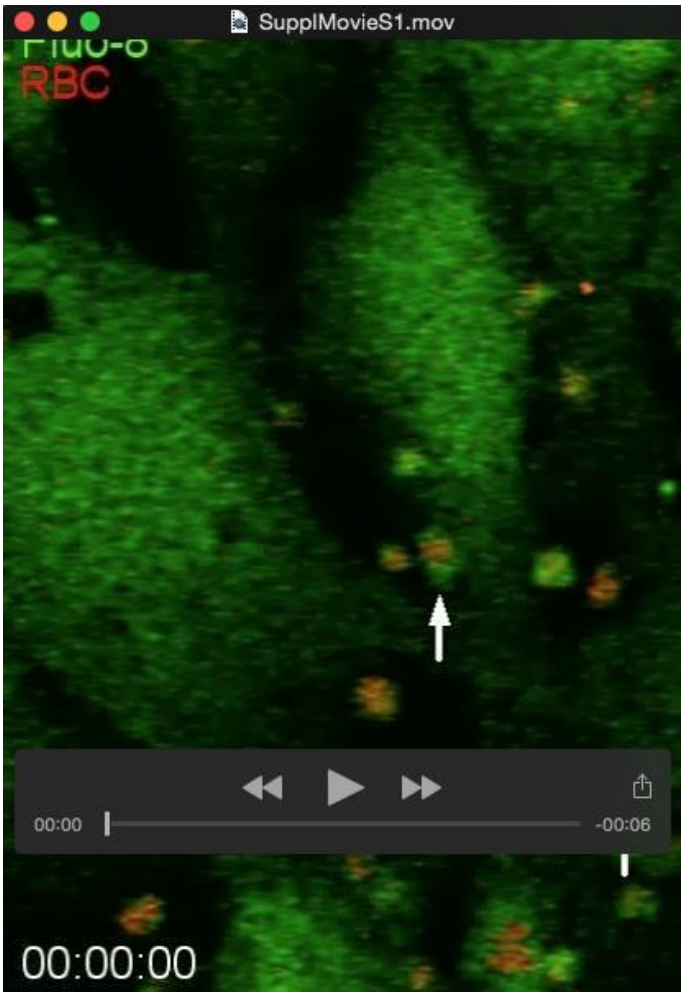


Figure S1. The effects of inhibitors La^{3+} and xestospongin C. Representative fura-2 ratio fluorescence changes evoked by the addition of 100 µM ATP without (black) and after 20 min incubation with 20 µM of xestospongin C (red) in *Stim1*$^{-/-}$*; Stim2*$^{-/-}$ MEFs (left panel). The right panel shows the quantification of the area under the curve of the agonist evoked Ca^{2+} responses. Data are means ± s.e.m. of 3 independent experiments, comprised of 20 cells per experiment per condition.



Supplementary Movie S1. Periphagosomal Ca^{2+} hotspots in junctate-expressing MEFs. Confocal time-lapse images of RFP-junctate-expressing *Stim1*$^{-/-}$ phagocytic MEFs loaded with the Ca^{2+} sensitive dye Fluo-8-AM (green) revealed both global (whole cell) as well as local (arrows) Ca^{2+} elevations when cells were exposed to opsonized RBCs (red). Images were acquired 5 min after addition of phagocytic targets, every 12 sec for 20 min.