

File name: Supplementary Data 1

Description: Original confocal z-stack of cells depicted in Figure 6c and Supplementary Fig 4d-e with adjustments for brightness and contrast. FLAG-TRPM7 is shown pseudocolored magenta; anti-PDI, cyan; nuclei, blue; and brightfield, grey.

File name: Supplementary Movie 1

Description: Phagocytosis of CypHer5E-stained apoptotic Jurkat cell by GCaMP6sexpressing BMDM. Top: GCaMP6s (Fire LUT); Middle: CypHer5E (Grey LUT); Bottom: Brightfield. Time is min:sec. Scale bar = 10  $\mu$ m.

File name: Supplementary Movie 2

Description: Animated confocal z-stack of cells depicted in Figure 6c and Supplementary Fig 4d-e shown as individual channel images and single optical sections.