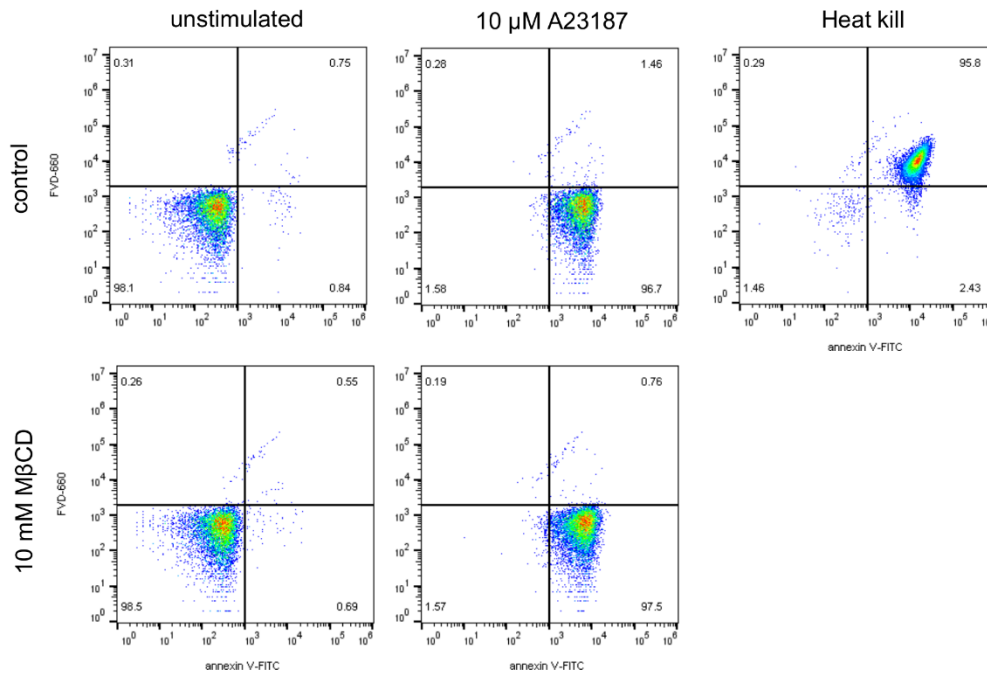


Lipid rafts are essential for release of phosphatidylserine-exposing extracellular vesicles from platelets

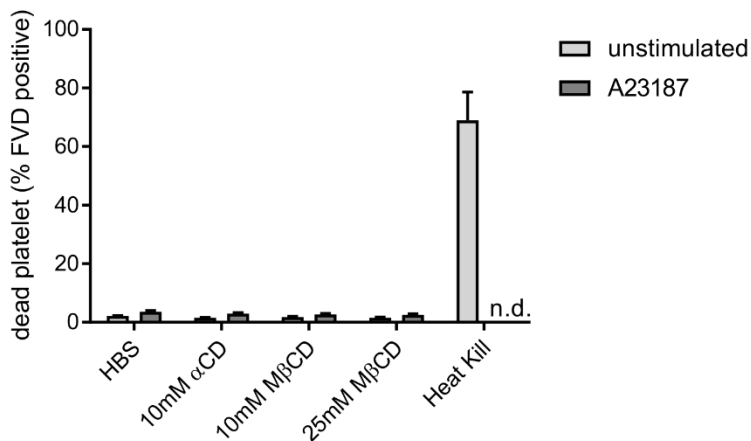
Hao Wei, Jean-Daniel M. Malcor, Matthew T. Harper

Supplementary Figure 1

a Platelets: CD41⁺, > 1 μ m



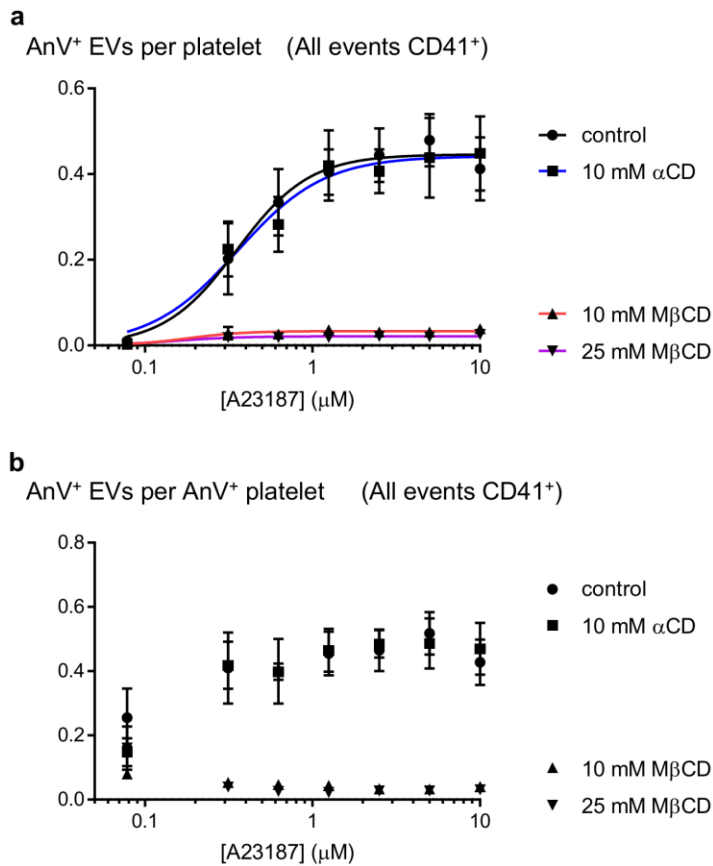
b



Supplementary Figure 1: M β CD does not affect platelet viability

Platelets were treated with M β CD (10 mM or 25 mM), α CD (10 mM) or vehicle as control, prior to stimulation with 10 μ M A23187 for 10 minutes. After this, platelets were stained with anti-CD41-PerCP-Cy7, annexin V-FITC to detect PS exposure, and FVD-660 to detect plasma membrane permeability. Heat-killed platelets were used as a positive control for loss of viability. Representative density plots are shown in (a), with FVD-660 fluorescence on the vertical axis, and annexin V-FITC fluorescence on the horizontal axis. Events are CD41⁺, > 1 μ m. (b) Mean \pm SEM (n = 5) of % platelets in upper right quadrant (annexin V⁺, FVD-660⁺). n.d. : not determined.

Supplementary Figure 2



Supplementary Figure 2: Replotting of data in Fig. 2c

To aid interpretation of the density plots in Figure 2, the relationship between AnV⁺/CD41⁺ EVs and platelet count is shown. In (a), the data are replotted as number of EVs detected per platelet; in (b), the data are replotted as number of EVs per annexin V⁺ platelet. Note that at the lower concentration of A23187, there are very few annexin V⁺ platelets, making it difficult to interpret this ratio in (b). Above this concentration, our flow cytometry assay detects approximately 0.4 AnV⁺EVs per AnV⁺ platelet (all events CD41⁺) in control and αCD-treated samples. In 10 mM MβCD-treated samples, we detect approximately 10-fold fewer (0.04 AnV⁺ EVs per AnV⁺ platelet). In samples treated with 25 mM MβCD, we detect only 0.01 AnV⁺ EVs per AnV⁺ platelet. As discussed in the main text, these values are likely to be underestimates of the total number of EVs released, and probably represent the largest EVs.