

# Supporting Information

Vono et al. 10.1073/pnas.1319784110

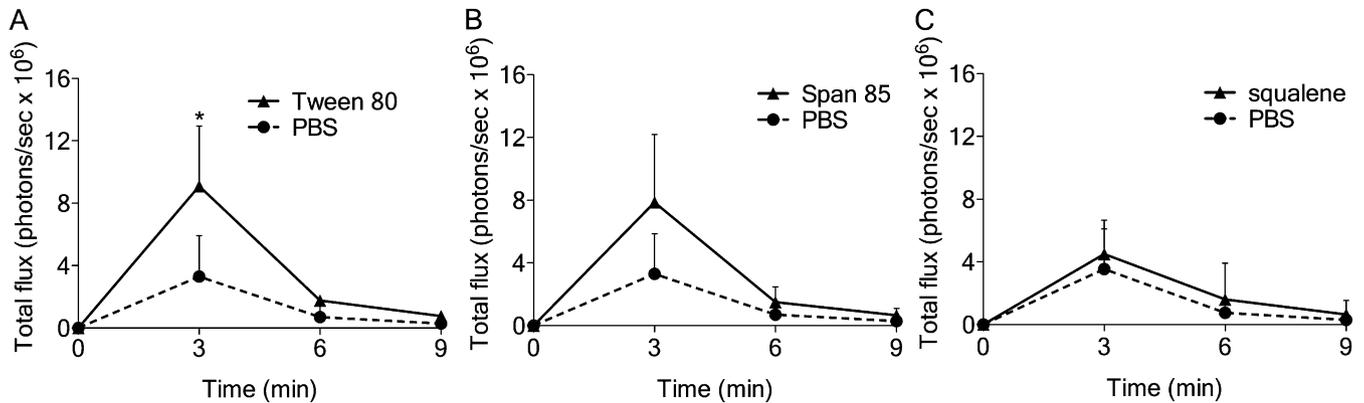


Fig. S1. The two surfactants, Tween 80 and Span 85, are responsible for MF59-induced ATP release. (A–C) Quantitative analyses of chemiluminescence emission over time (number of photons per second in the region of interest). (A) Tween 80 (0.5%), (B) Span 85 (0.5%), (C) squalene (5% vol/vol). Data show mean values + SD from at least four independent experiments. Unpaired, two-tailed Student's *t* test (T): \**P* < 0.05.

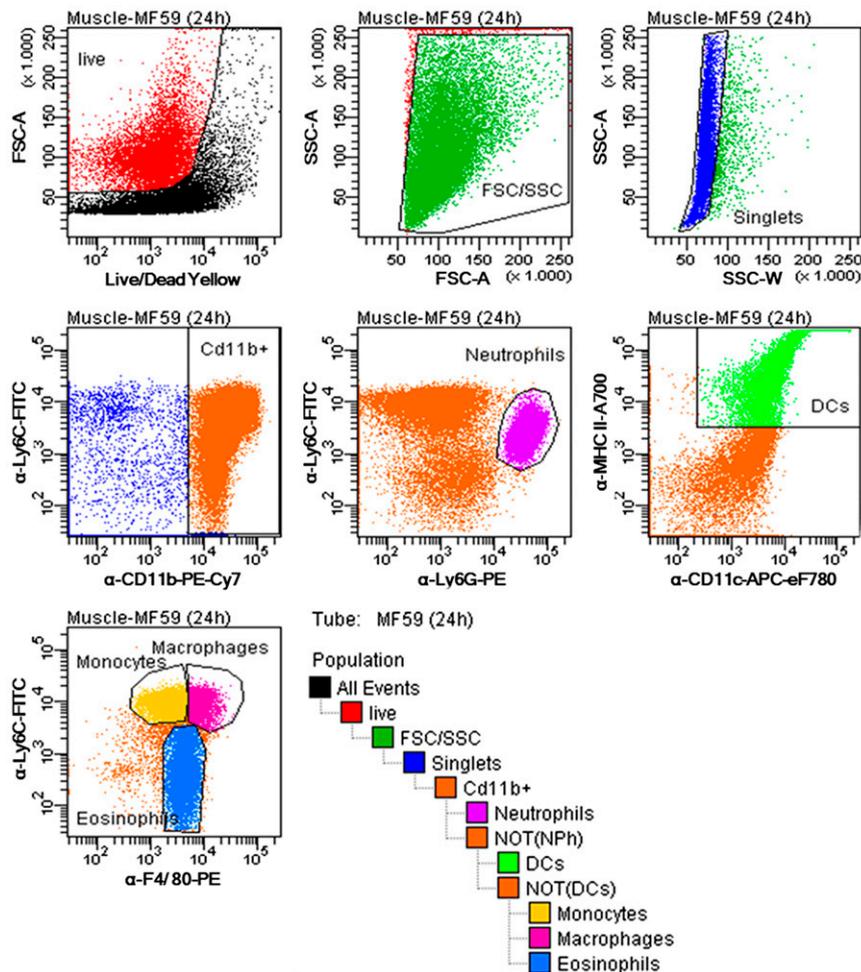


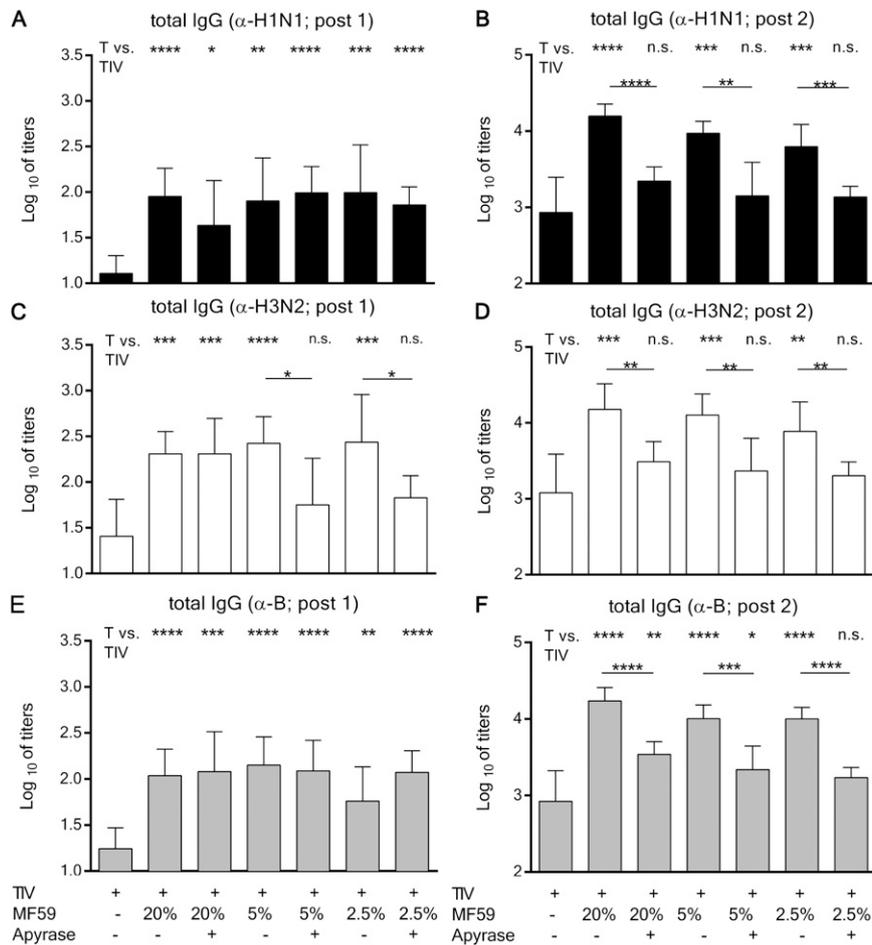
Fig. S2. Gating strategy of muscle-derived cells. Muscle single cell suspensions were prepared and analyzed by FACS, applying the depicted gating strategy.



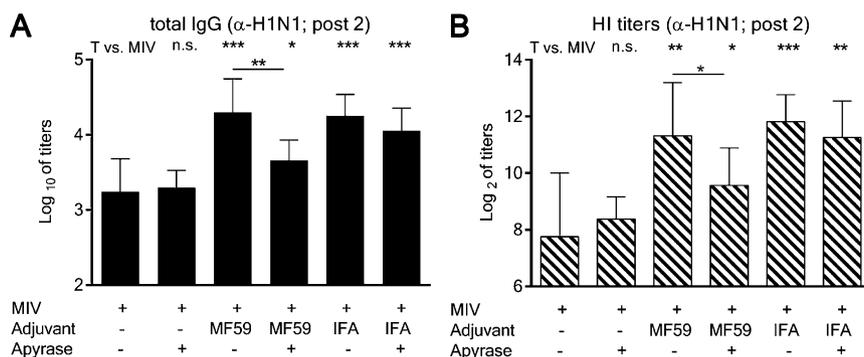








**Fig. 57.** Effect of apyrase on antibody responses induced by decreasing doses of MF59. (A–F) Mice were vaccinated with TIV and different doses of MF59 (20% vol/vol, 5% vol/vol, and 2.5% vol/vol) with or without apyrase (10 U per leg). Serum samples were drawn 2 wk after each immunization, and the total IgG antibody titers toward (A and B) H1N1/California, (C and D) H3N2/Perth, and (E and F) B/Brisbane were measured by ELISA after the prime (post 1) and the booster vaccination (post 2). Values are the mean of logarithmic titers ( $\log_{10}$ ) of eight mice per group + SD. Unpaired, two-tailed Student's *t* test (T): \**P* < 0.05, \*\**P* < 0.01, \*\*\**P* < 0.001, \*\*\*\**P* < 0.0001.



**Fig. 58.** Coinjection of apyrase abrogates adjuvanticity of MF59, but not incomplete Freund's adjuvant. Mice were vaccinated with a monovalent influenza vaccine (MIV) and different adjuvants (MF59 20% vol/vol or incomplete Freund's adjuvant 40% vol/vol) with or without apyrase (10 U per leg). (A) Total IgG antibody titers toward H1N1/California. Values represent the mean logarithmic titers ( $\log_{10}$ ) of eight mice per group + SD. (B) Hemagglutination inhibition titers toward H1N1/California; values represent means of  $\log_2$  titers of eight mice/group + SD. Unpaired, two-tailed Student's *t* test (T): \**P* < 0.05, \*\**P* < 0.01, \*\*\**P* < 0.001.

