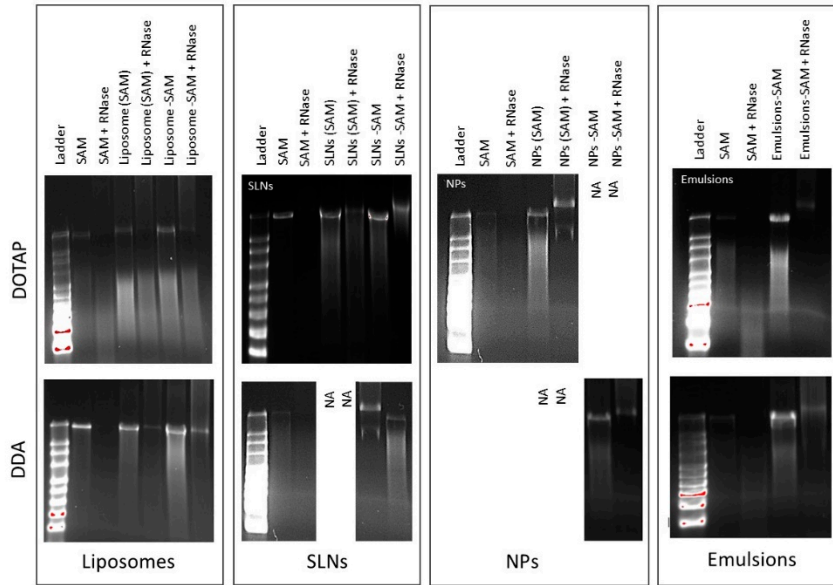


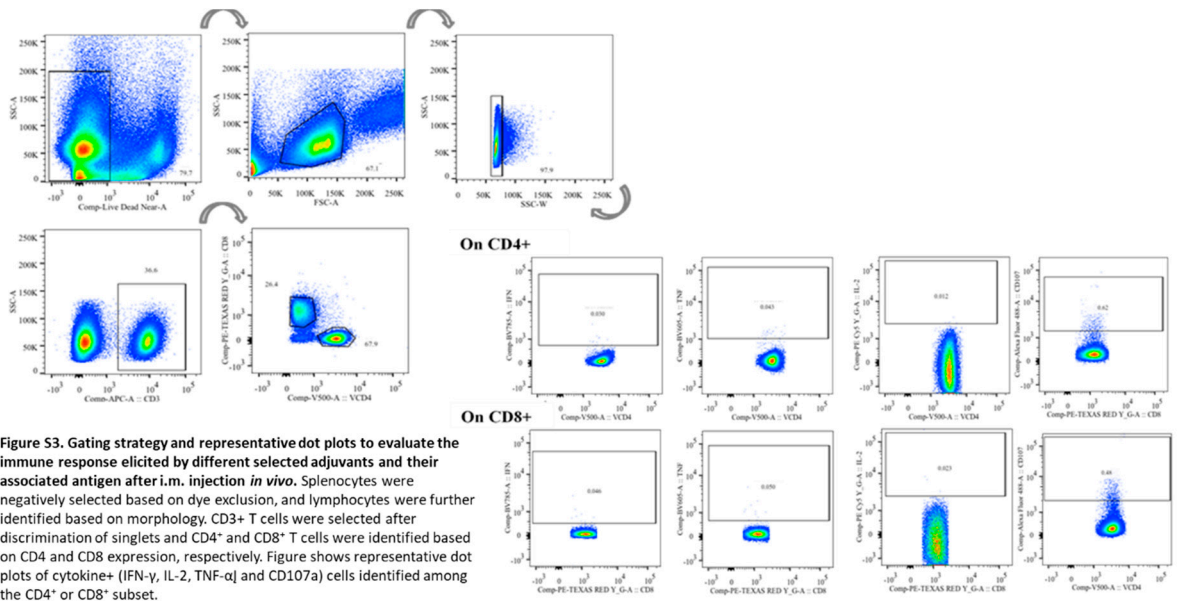
Supplementary Figures

Delivery system	No SAM	SAM adsorbed	SAM entrapped
Liposomes			
Solid lipid nanoparticles			
Polymeric nanoparticles			
Emulsions			NA

**Figure S1. Schematic showing the concept of the four different delivery platforms. Each of these delivery systems were prepared containing a cationic lipid (DOTAP or DDA). These formulations were prepared without SAM, with SAM adsorbed or with SAM entrapped. To adsorb SAM on the surface, the SAM was added (8:1 mol/mol N:P) dropwise on into the suspensions of liposomes, SLNs, NPs and emulsions under mild stirring. SAM adsorbing formulations were allowed to complex at 4°C for at least 2 hours. To encapsulate SAM inside formulations, liposomes, SLNs and NPs were formulated with the addition of SAM (8:1 mol/mol N:P) in the aqueous phase prior to formulating the particles.**



**Figure S2. Denaturing RNA agarose gel electrophoresis showing protection of SAM-RVG from RNase delivery platforms. Liposomes, SLNs, NPs and emulsions were prepared with either DOTAP or DDA as their cationic lipid component. These formulations either had entrapped ((SAM)) or adsorbed (-SAM) SAM-RVG and were then mixed with RNase. Molecular weight ladder (lane 1), SAM-RVG (lane 2), SAM-RVG after incubation with RNase (lane 3) were used as a control in all gels run. NA represents samples not tested due to initially physico-chemical instability.**



**Figure S3. Gating strategy and representative dot plots to evaluate the immune response elicited by different selected adjuvants and their associated antigen after i.m. injection *in vivo*. Splenocytes were negatively selected based on dye exclusion, and lymphocytes were further identified based on morphology. CD3+ T cells were selected after discrimination of singlets and CD4+ and CD8+ T cells were identified based on CD4 and CD8 expression, respectively. Figure shows representative dot plots of cytokine+ (IFN- $\gamma$ , IL-2, TNF- $\alpha$  and CD107a) cells identified among the CD4+ or CD8+ subset.**