

Supplement data

Table S1 Physical properties of S-TMC NPs

Nanoparticles	Particle size (nm)	Polydispersity index (PDI)	Zeta potential (mV)	% loading efficiency (LE)
TMC NPs	358.1 ± 7.404	0.354 ± 0.023	15.7 ± 0.551	-
S-TMC NPs	343 ± 3.402	0.294 ± 0.023	14.9 ± 0.451	95.08 ± 4.50

Data are shown as mean ± SD of three independent experiments.

Figure S1

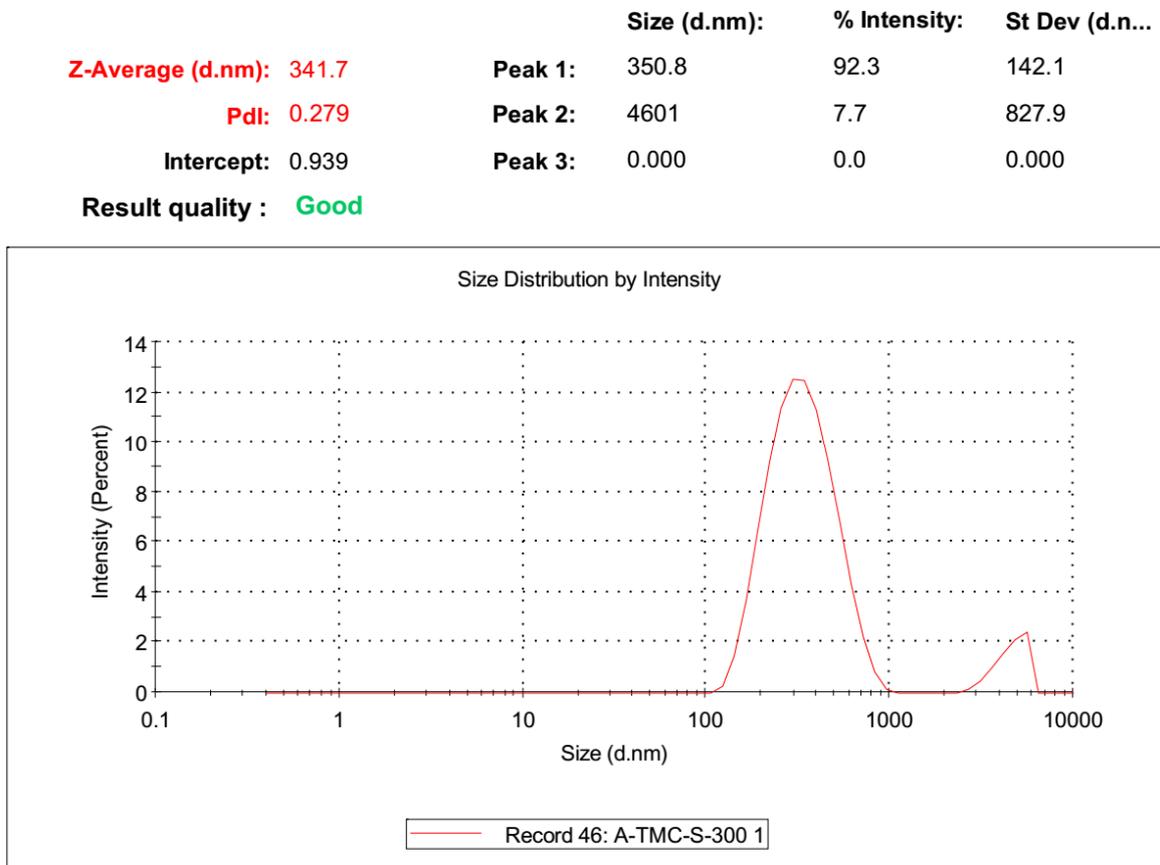


Figure S1 Size distribution of S-TMC NPs by dynamic light scattering. Data presents a representative experiment from three independent sets of data.

Figure S2

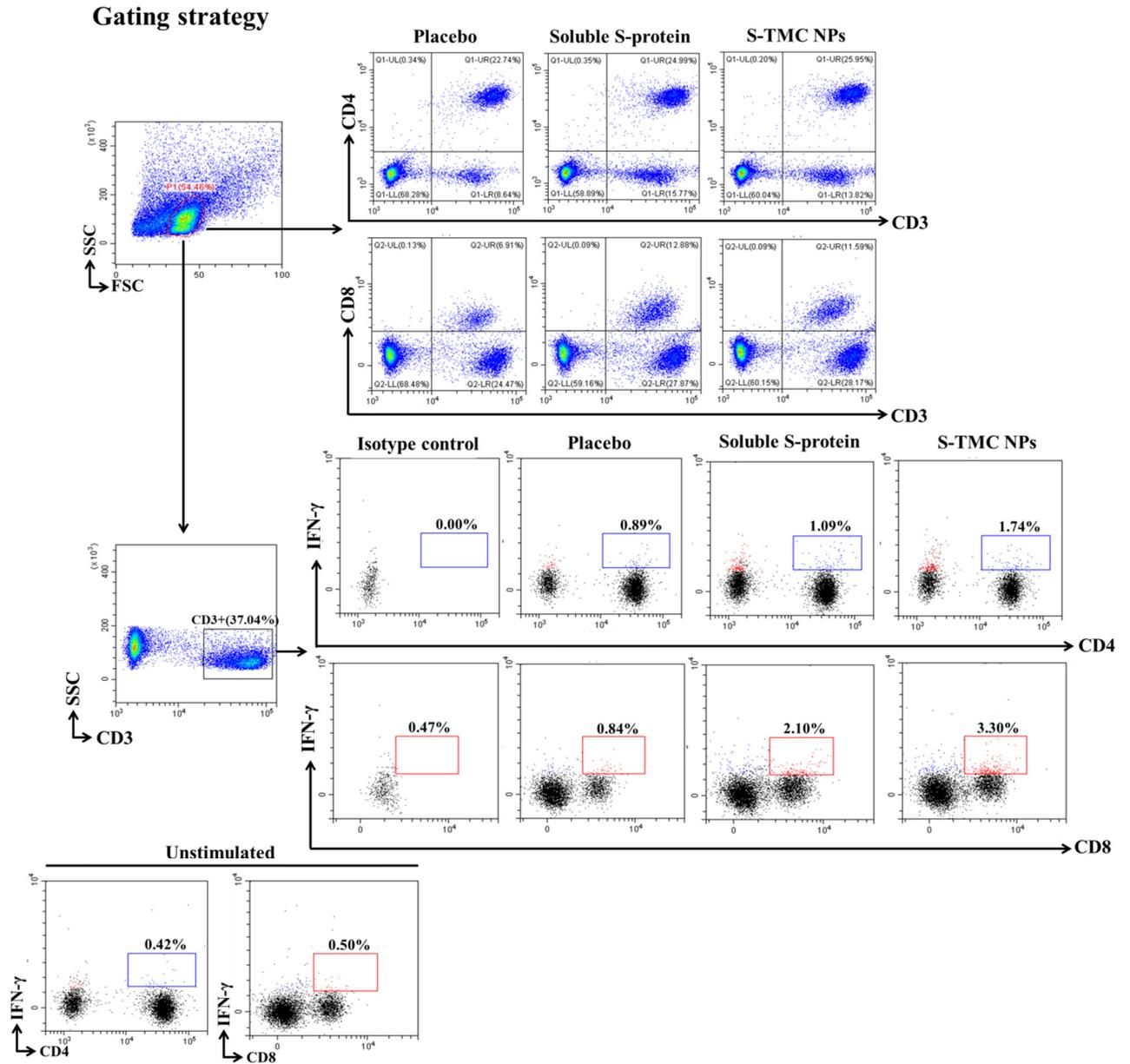


Figure S2 Gating strategy used for quantitation of splenic T lymphocytes. The cultivated splenocytes were *ex vivo* stimulated with 10 $\mu\text{g}/\text{mL}$ of recombinant S-protein for 72 h. After treatment, stimulated cells were harvested and stained with antibodies specific to CD3, CD4,

CD8 and IFN- γ . The percentages of CD3⁺CD4⁺, CD3⁺CD8⁺, IFN- γ ⁺CD4⁺ and IFN- γ ⁺ CD8⁺ cells in cultivated splenocytes were determined by flow cytometry.