Supporting Information

The role of linker length and antigen density in nanoparticle peptide vaccine

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Table 1. Physical characterization of particles for linker length study

Figure S1. Effect of linker length and peptide antigen density on uptake of NPs by BMDCs.

Table S1: Physical Characterization of Particles for linker length study

Formulations	Size (nm)	PDI	ZP (mV)	µg SIINFEKL /mg NP	µg CpG /mg NP	Antigen/ nm^2
NP-PEG$_{5k}$-CSIINFEKL$_{low}$-CpG	257	0.138	2	109	27.8	1.20
NP-PEG$_{5k}$-CSIINFEKL$_{medium}$CpG	1361	0.320	1	171	27.5	1.89
NP-PEG$_{5k}$-CSIINFEKL$_{high}$-CpG	2183	0.393	-2	386	32.7	3.76

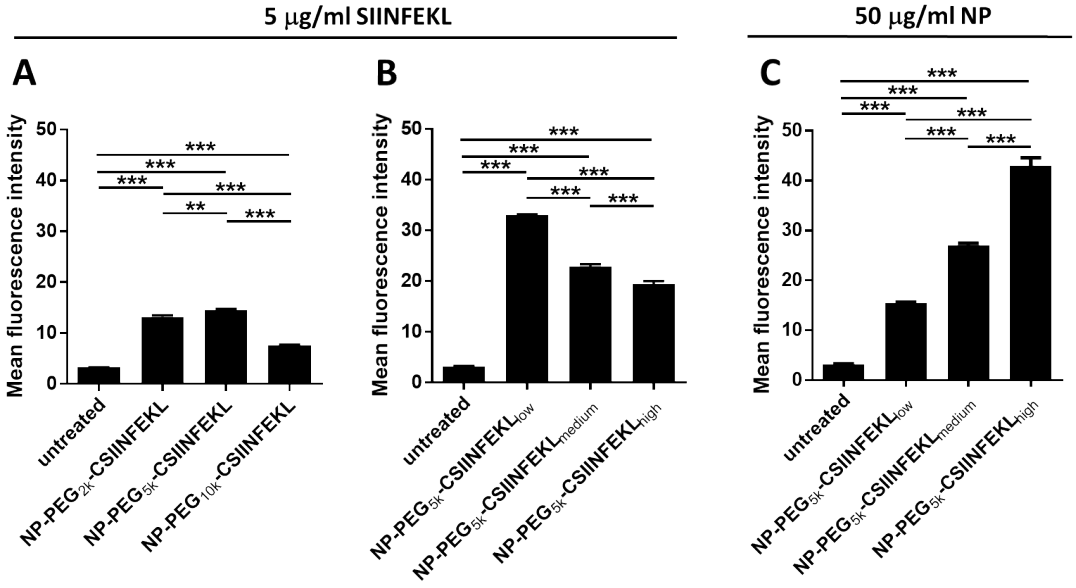

Figure S1: Effect of linker length and peptide antigen density on uptake of NPs by BMDCs. BMDC on day 6 were treated with NPs labeled with FITC for 4 hours, washed and further incubated at 37 °C for 20 hours. Cells with NP fluorescence was analyzed by flow cytometry. A) Linker length comparison at 5 µg/mL CSIINFEKL dose; B) antigen density comparison at 5 µg/mL CSIINFEKL dose; C) antigen density comparison at 50 µg/mL NP dose. Results are shown as mean ± SEM, n=3.