

SUPPLEMENTARY FIGURES

The STING ligand cGAMP potentiates the efficacy of vaccine-induced CD8⁺ T-cells

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Figure S1. Effector profile of tetramer⁻ CD8⁺ T-cells.

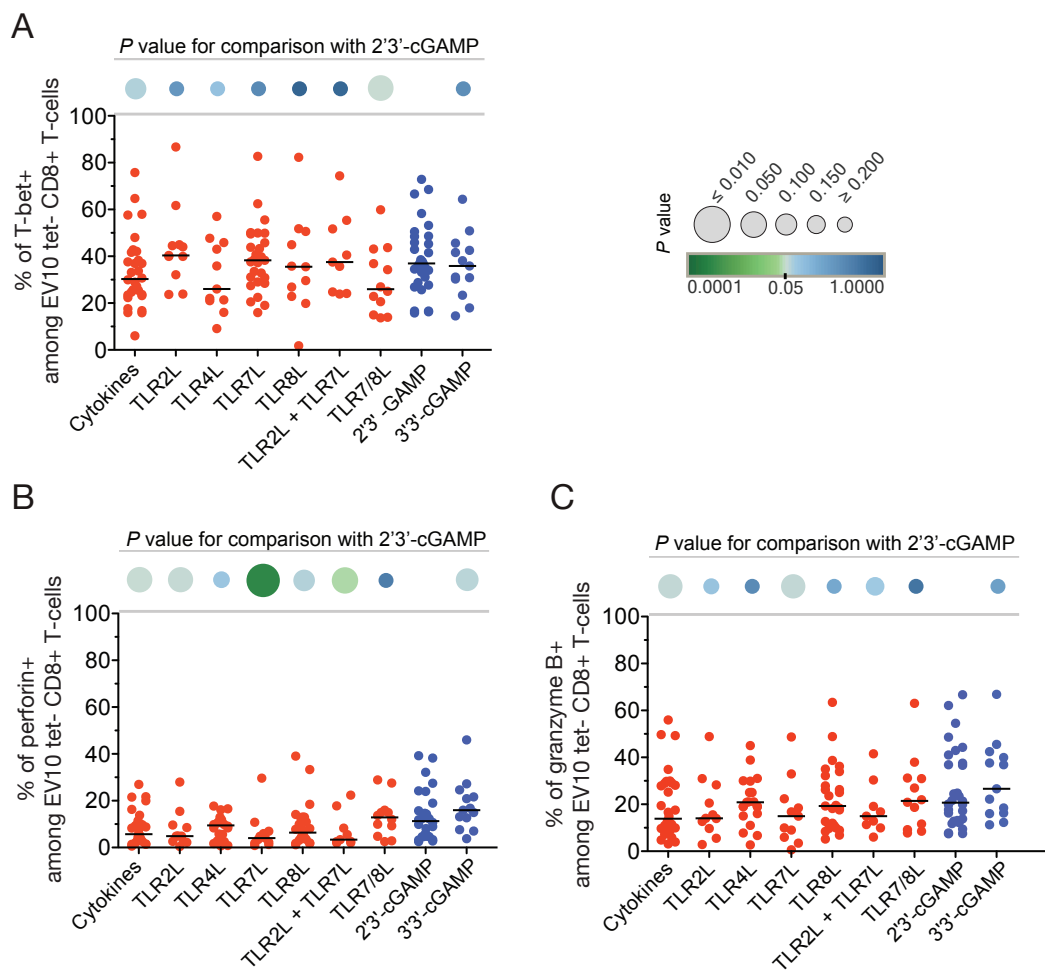
Figure S2. Direct impact of 2'3'-cGAMP on the proliferation of CD8⁺ T-cells.

Figure S3. Gene expression profile of moDCs after stimulation with STING ligands.

Figure S4. Secretion of inflammatory cytokines by PBMCs after stimulation with PRR ligands.

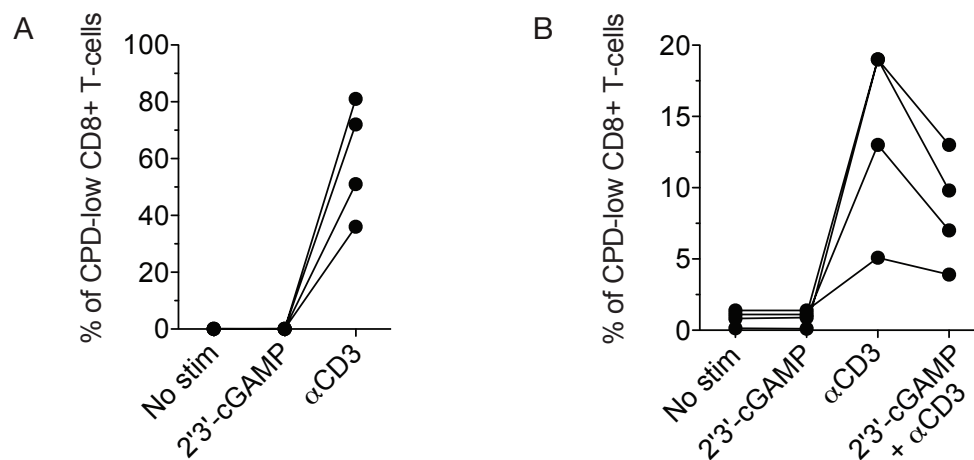
Figure S5. Specific IgA and IgG titers in mice vaccinated with NP-p24.

Figure S1. Effector profile of tetramer⁻ CD8⁺ T-cells.



Intracellular expression of T-bet (A), perforin (B), and granzyme B (C) among tetramer⁻ CD8⁺ T-cells after stimulation with various adjuvants. Each dot represents one HLA-A2⁺ donor per condition. Horizontal bars indicate median values. *P* values are depicted as circles with variable size and color intensity (Mann-Whitney U test).

Figure S2. Direct impact of 2'3'-cGAMP on the proliferation of CD8⁺ T-cells.



(A) Total human PBMCs or (B) CD8⁺ T-cells (enriched to > 94% using magnetic bead purification) were loaded with a cell proliferation dye (CPD), and stimulated with the CD3-specific antibody OKT3 in the absence or presence of 2'3'-cGAMP. Proliferation was quantified on day 4 via dilution of CPD.

Figure S3. Gene expression profile of moDCs after stimulation with STING ligands.

Gene expression profile of CD1a⁺ CD14⁻ moDCs after stimulation for 24 hr with 2'3'-cGAMP or 3'3'-cGAMP at concentrations of 10 µg/mL. Data are shown relative to unstimulated moDCs from the same donor.

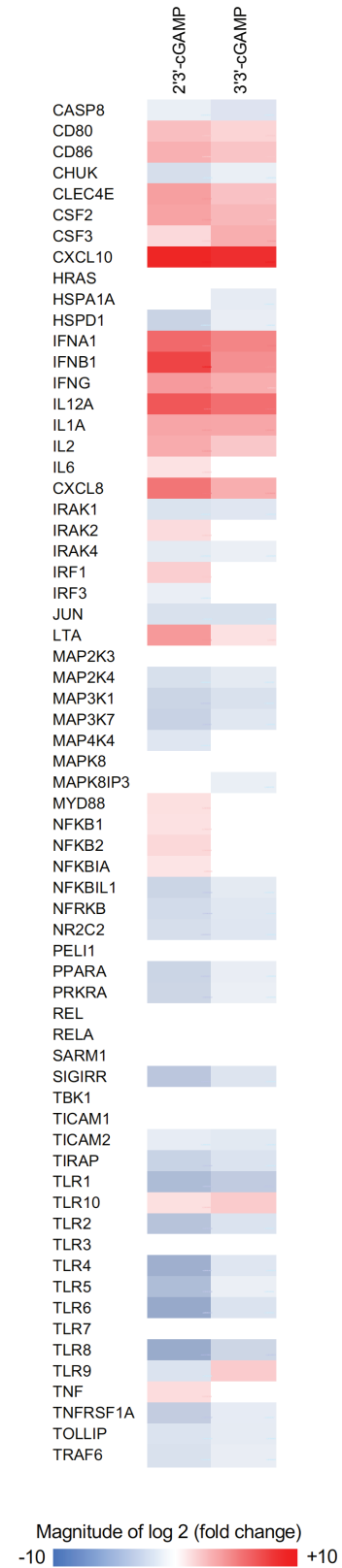
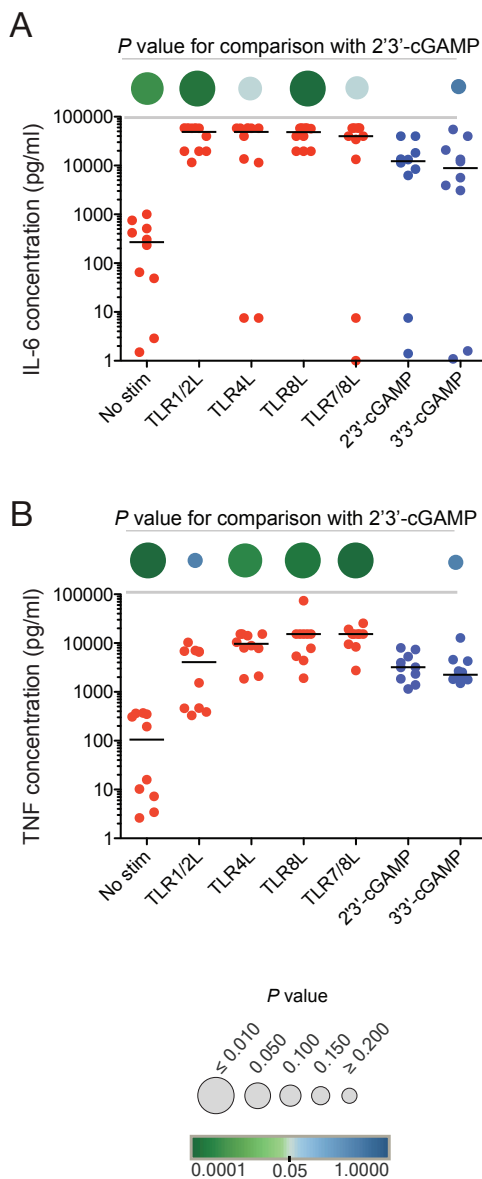
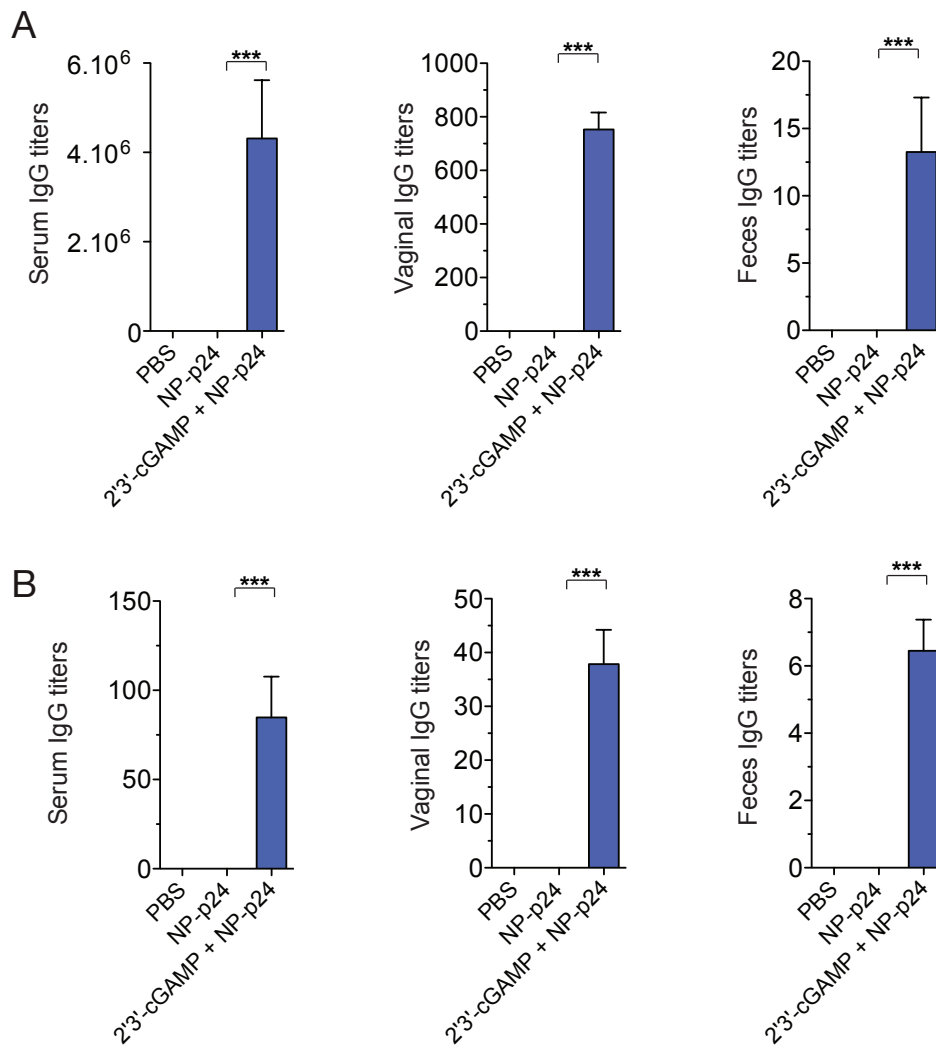


Figure S4. Secretion of inflammatory cytokines by PBMCs after stimulation with PRR ligands.



Extracellular concentrations of IL-6 (**A**) and TNF (**B**) secreted by PBMCs in response to overnight stimulation with various PRR ligands. Horizontal bars indicate median values. *P* values are depicted as circles with variable size and color intensity (Mann-Whitney U test).

Figure S5. Specific IgA and IgG titers in mice vaccinated with NP-p24.



Titers of p24-specific IgA (A) and IgG (B) on day 42 after vaccination with NP-p24. *** $P < 0.001$ (Mann-Whitney U test).