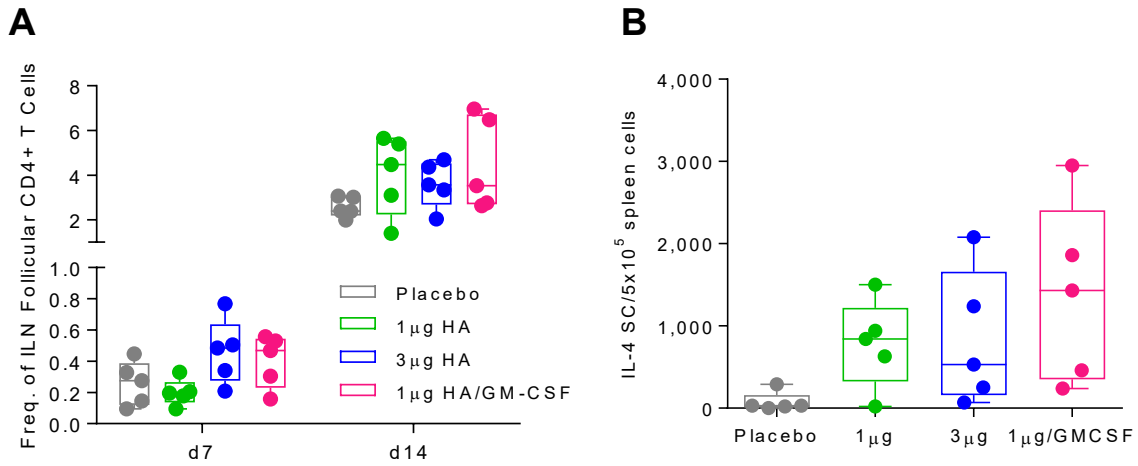
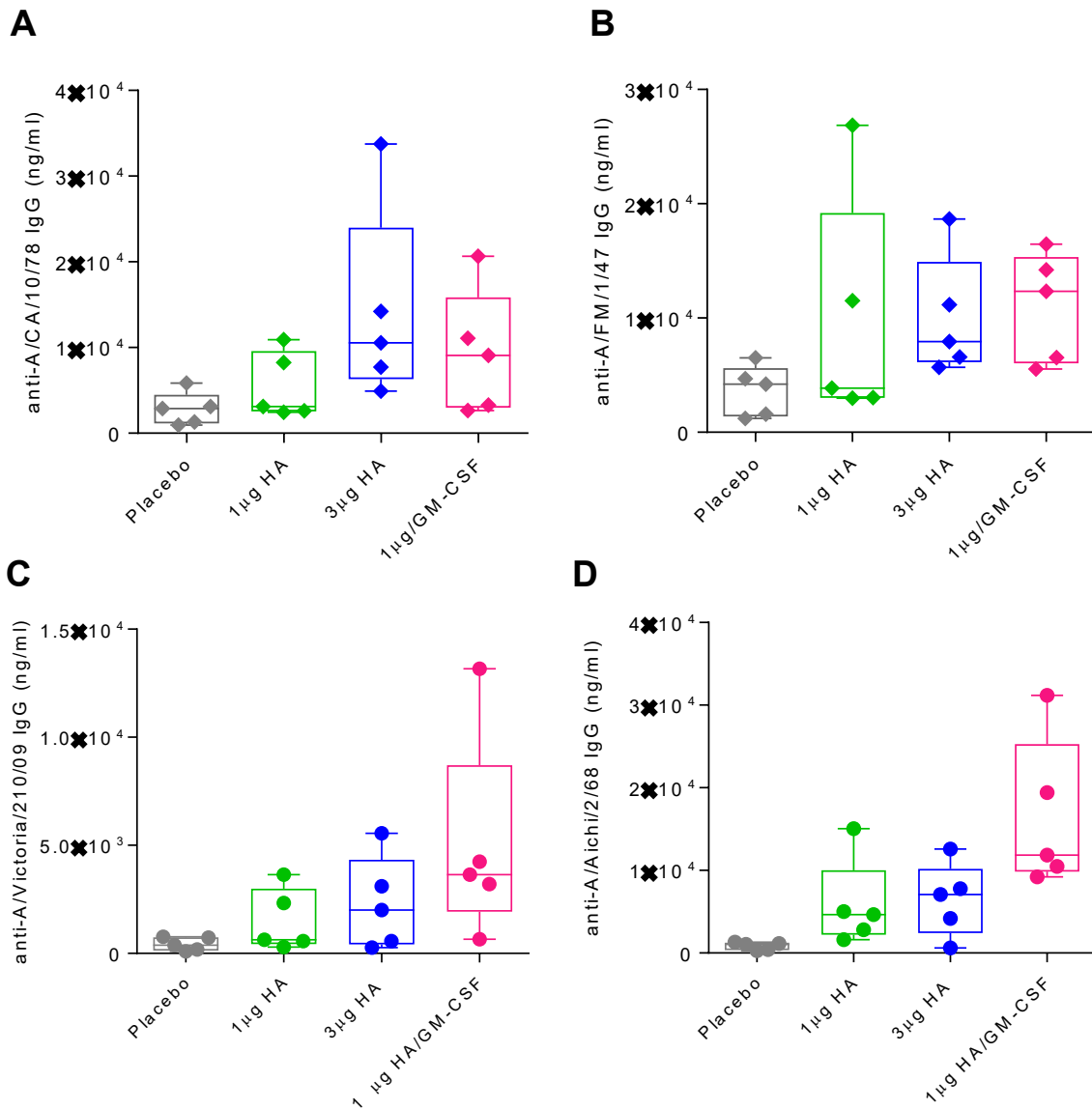


Suppl. Fig. 1. Gating strategies for flow cytometry. Lymphocytes were isolated from ILN 14 d.p.v. and analyzed for the frequency of follicular CD8⁺ and CD4⁺ T cells (Figure 9A and 9B, Suppl. Fig. 3A,B). Samples were acquired on a LSR II flow cytometer (BD Biosciences) and data were analyzed with FlowJo (Tree Star). Cells were gated for singlets (A) first and then lymphocytes (B). CD8⁺ follicular T cells were determined to be CD4⁻ (PerCP-Cy5.5⁻) CD3 ϵ ⁺ (APC⁺) (C) and CXCR5⁺ (PE-Cy7⁺) PD-1⁺ (APC-Cy7⁺) (Da). CD4⁺ follicular T cells were determined to be CD4⁺ (PerCP-Cy5.5⁺) CD3 ϵ ⁺ (APC⁺) (C) and CXCR5⁺ (PE-Cy7⁺) PD-1⁺ (APC-Cy7⁺) (Db).



Suppl. Fig. 2. Activation of T cells in inguinal lymph nodes (ILN) and spleen. Lymphocytes were isolated from the ILN and the spleen 7 and 14 days post-MN vaccination. Gating strategy for flow cytometry is described in Suppl. Figure 2 (A) CD4+ follicular cells (CD4+CXCR5+PD-1+) were quantified via flow cytometry, and (B) vaccine-specific IL-4-secreting cells were isolated from the spleen at day 7, and enumerated in ELISPOT plates following stimulation with A/Christchurch/16/2010 subunit vaccine. Values are expressed as mean \pm SEM.



Suppl. Fig. 3. Cross-reactive antibody titers against H1N1 and H3N2 viruses. Serum was collected from mice 90 days post-A/Christchurch/16/2010 vaccination with dissolving MN. IgG reactivity with monovalent subunit vaccines for (A) H1N1 A/California/10/1978 ($p=0.2$), (B) H1N1 A/FM/1/1947 ($p=0.3$), (C) H3N2 A/Victoria/210/2009 ($p=0.055$), and (D) H3N2 A/Aichi/2/1968 ($p=0.055$.) was measured with ELISA. Statistics performed in Mann-Whitney test for comparison of 1 μg HA/GM-CSF vs. 1 μg HA groups.