



S4 Figure. IFN- γ -secreting cellular and IgG antibody secreting and humoral immune responses in mice with m-cNA-M2e VLP vaccination. Immunized mice (n=4 per group, 6-8 weeks old adult mice) were infected with A/Phil/1982 (H3N2) virus. **(A and B)** IFN- γ -secreting cell spots. Splenocytes and lung cells were cultured on the ELISpot plate pre-coated with cytokine capture antibody in the presence of 5 μ g/mL of (A) M2e or (B) N2 NA (A/Brisbane/10/2007 H3N2) peptide pools. **(C and D)** Antigen-specific IgG antibodies were determined from mediastinal lymph node (mLN) and spleen harvested on day 6 post infection and subsequent *in vitro* culture for 5 days (D5) on the plate precoated with 2 μ g/mL of (C) M2e peptide or 200 ng/mL of (D) N2 NA protein (A/Brisbane/10/2007 H3N2). The statistical significances were performed with one-way ANOVA with Tukey's Multiple Comparison test and indicated as *, $P < 0.05$; **, $P < 0.01$; ***, $P < 0.001$ between indicated groups.