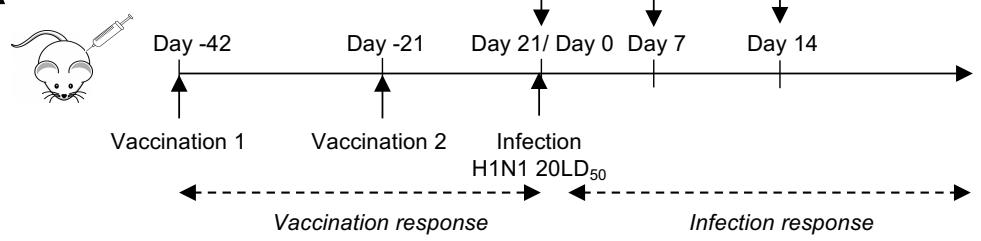
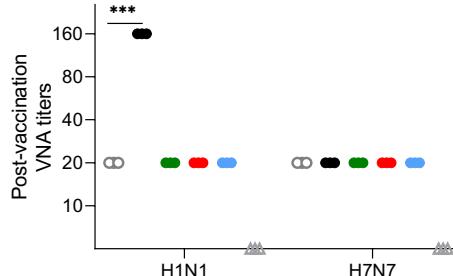
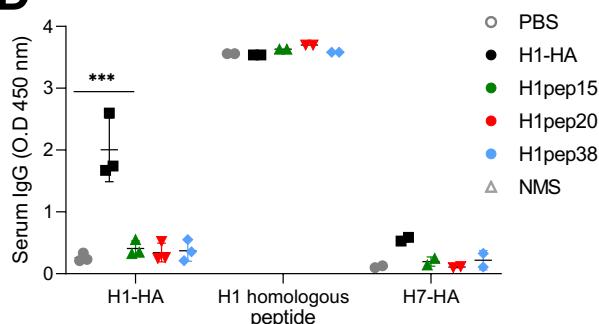
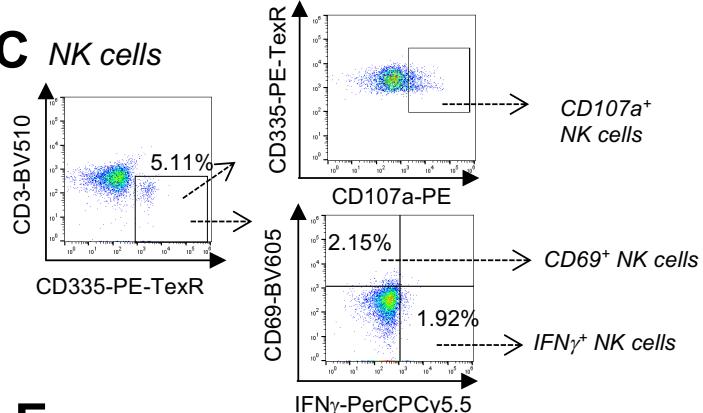
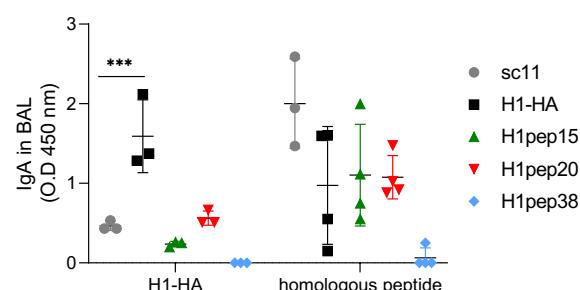
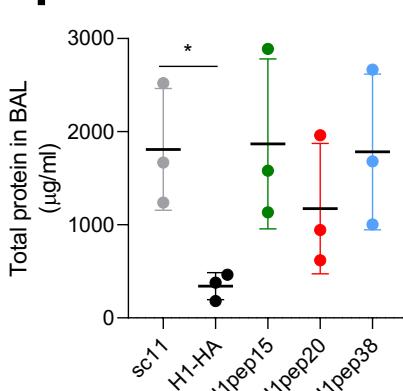
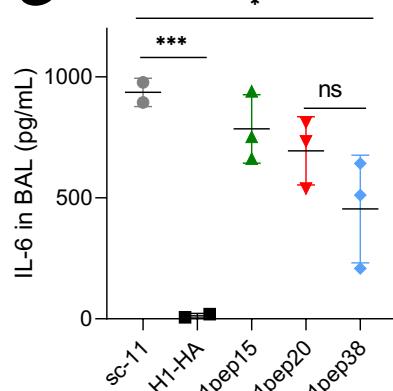
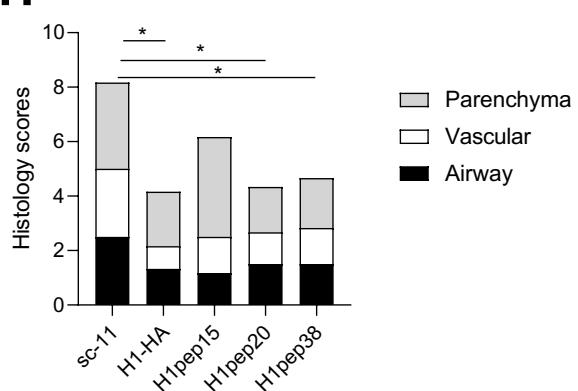
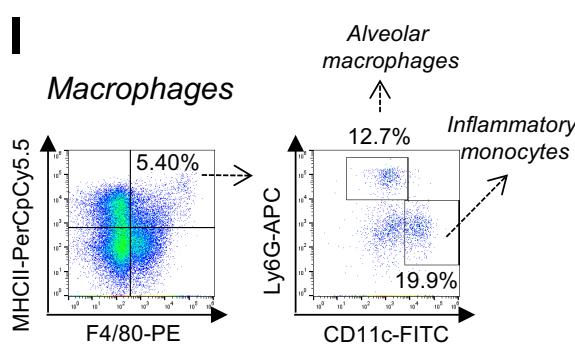
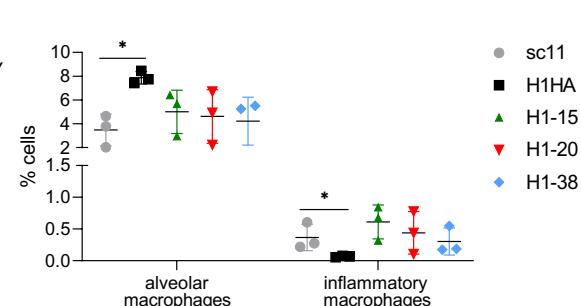


Supplementary figure 1: ADCC antibody responses are more cross-reactive than total IgG.
(A) H1-HA and (B) H7-HA ADCC responses from overlapping peptides. Data represents the average (line) and individual (symbols). The average HApep15, 20 and 38 peptide responses are circled. Linear regression analysis for H7-HA and H1-HA peptide ADCC responses for Pos 1 donor (C), and all donors HApep20 (D), HApep38 (E) and HApep15 (F) peptides ADCC responses. H7-HA and H1-HA peptide ELISA responses for Pos 1 donor (G) and H1-HA peptide ELISA and ADCC responses for Pos 1 donor (H).

A**B****D****C NK cells****E****F****G****H****I****Macrophages****J**

Supplementary figure 2: Antibody response following ADCC-peptide vaccination and influenza infection. (A) Schematic diagram of mouse vaccination and infection timeline. (B) H1N1 virus neutralizing antibodies (VNA) from day 21 post vaccination serum. (C) Representative FACS plots for NK cell activation at day 7 post infection from the lung (gated prior on FSC/SSC, live/dead). (D) H1-HA and homologous peptide IgG production in the serum by ELISA at day 7 post-infection. (E) H1-HA IgA production in BAL supernatants by ELISA at day 7 post-infection. (F) Total protein in BAL at day 7 post-infection measured by BCA assay. (G) IL-6 levels in BAL at 7 post-infection measured by ELISA. (H) Histopathology scores of airways, parenchyma and vascular murine lung tissues by H&E staining at day 7 post-challenge. (I) Representative FACS plots for Macrophage responses at day 7 post infection from the BAL (gated prior on FSC/SSC, live/dead), and % of cells in the lung. Data represents the mean average and SD. n=3 mice per group. * shows statistical significance by one-way ANOVA with Dunnett's multiple comparison test versus PBS group, *p<0.05, **p<0.01, ***p<0.005, experiments were repeated twice.