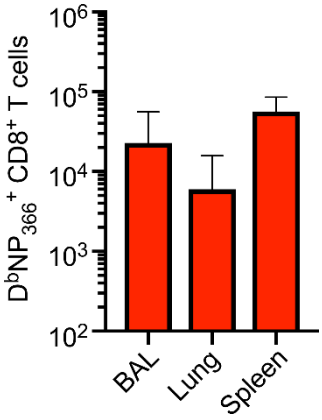
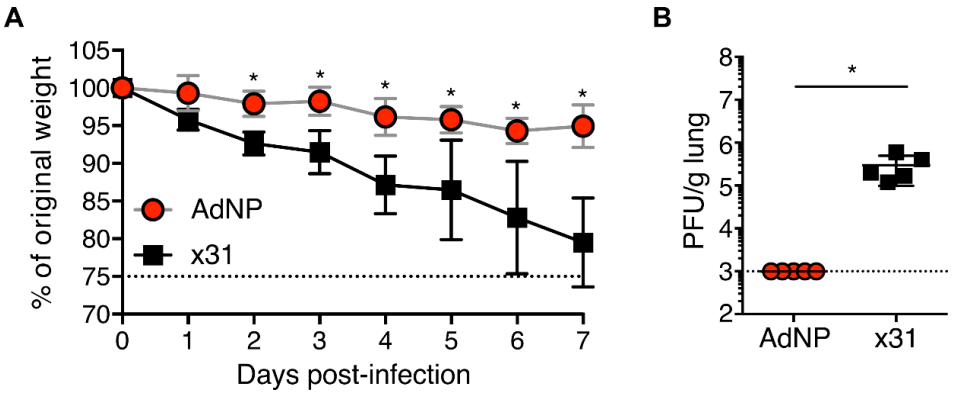
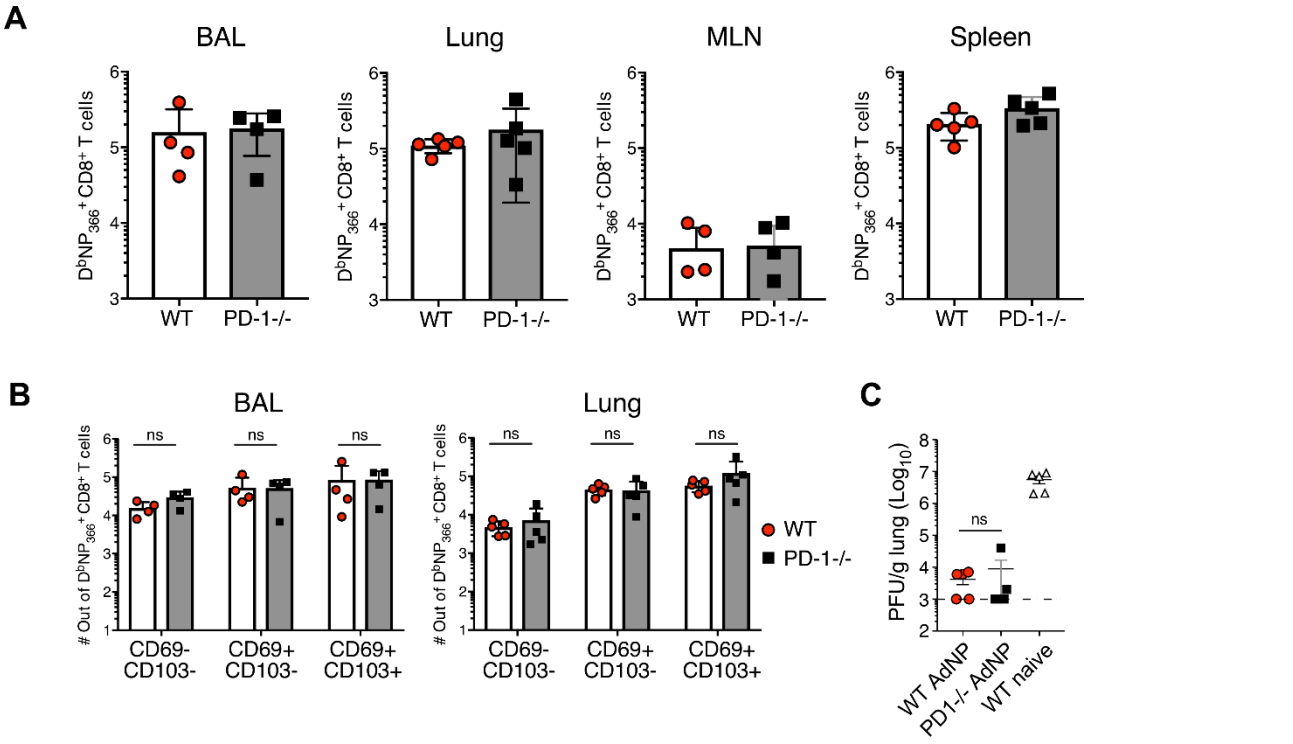


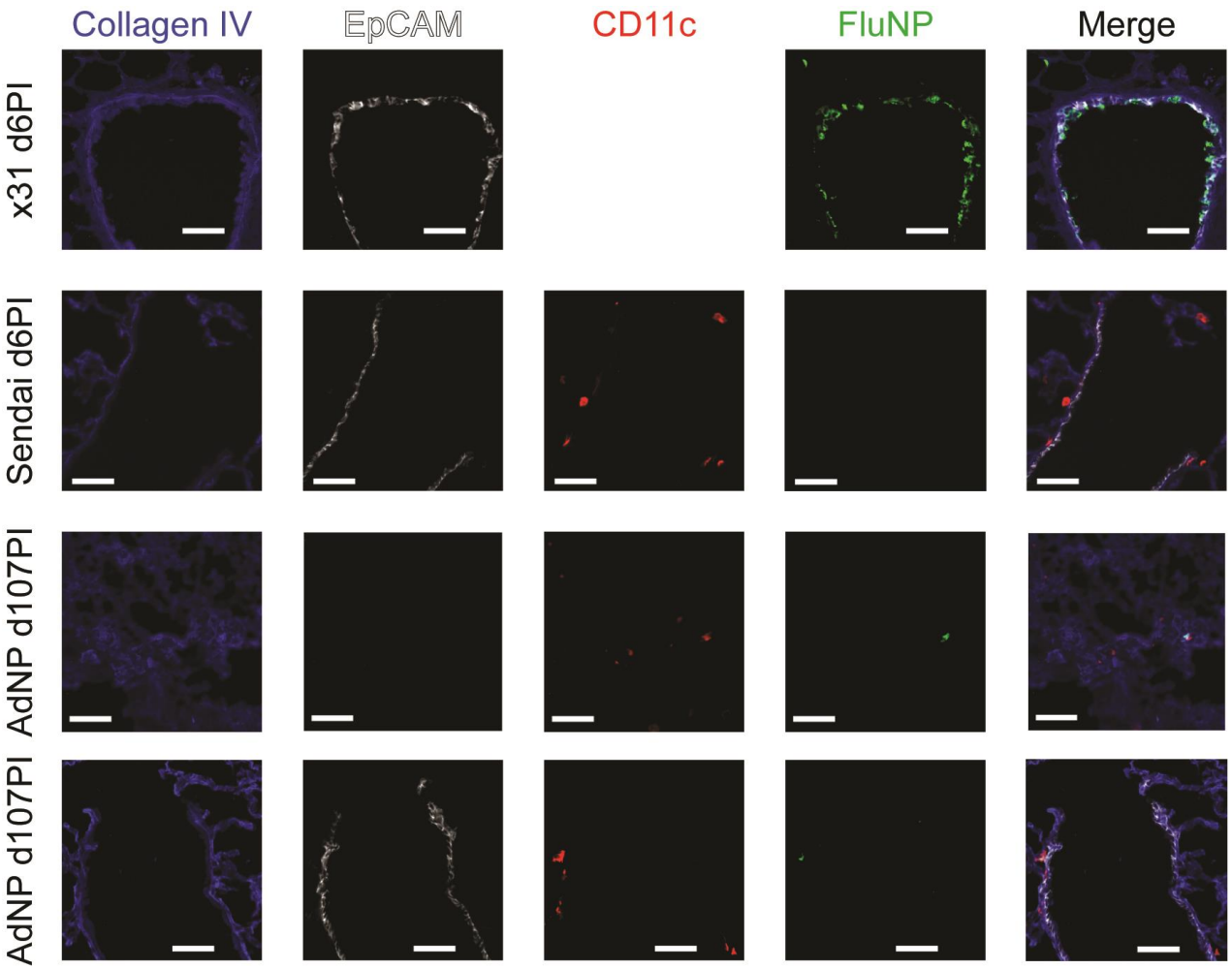
Supplementary Figure 1. AdNP generate long lasting lung and airway populations. C57BL/6 mice were immunized with AdNP s.c. and i.n. and 580 days later organs were isolated and D^bNP_{366} tetramer positive cells were enumerated through flow cytometry.



Supplementary Figure 2. AdNP generate long lasting protective immunity. C57BL/6 mice were immunized with AdNP s.c. and i.n. or with x31 Influenza i.n. 255 days later mice were challenged with PR8 and weightloss (**A**) was recorded and lung titer was determined 7 days after infection (**B**)**.** Dots in (**A**) represents mean±SD. *:p<0.05, (**B**) line and bars represent mean±SD. Each dot represents one mouse. Dotted line represents detection limit of assay. PFU: plaque forming units



Supplementary Figure 3. AdNP vaccination in PD-1 knock out mice results in generation of similar CD8 T cell response. WT C57BL/6 mice and PD-1 knock out mice (PD-1-/-) were immunized with AdNP s.c. and i.n. 60 days later BAL, lung, MLN and spleen was isolated and (**A**) D^bNP_{366} tetramer positive cells were enumerated through flow cytometry. (**B**) Number of CD69 and CD103 subsets out of the tetramer positive T cells were also analysed. (**C**) 60 days after vaccination, groups of mice were challenged with PR8 and titers in lungs were determined five days after challenge. (**A**) Bars represents mean±SD, each dot represents one mouse. (**B**) Line and bars represent mean±SD. Each dot represents one mouse. Dotted line represents detection limit of assay, ns: no significant difference



Supplementary Figure 4: Influenza NP protein persists in the lungs long after AdNP vaccination. Immunofluorescence microscopy of OCT-embedded mouse lungs for the influenza nucleoprotein following indicated infections. Colors are blue- Collagen IV, white- EpCAM, red- CD11c, green- FluNP. Scale bars indicate 50 um. Data are representative of two mice after AdNP vaccination.