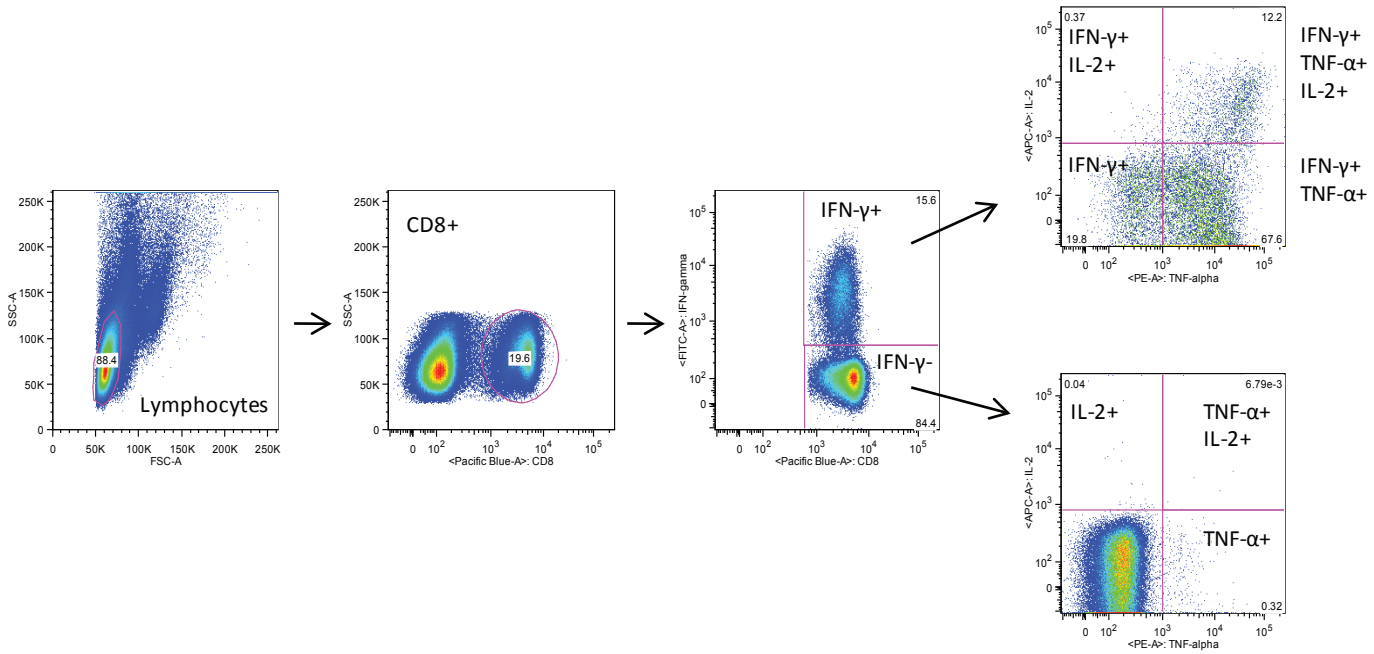
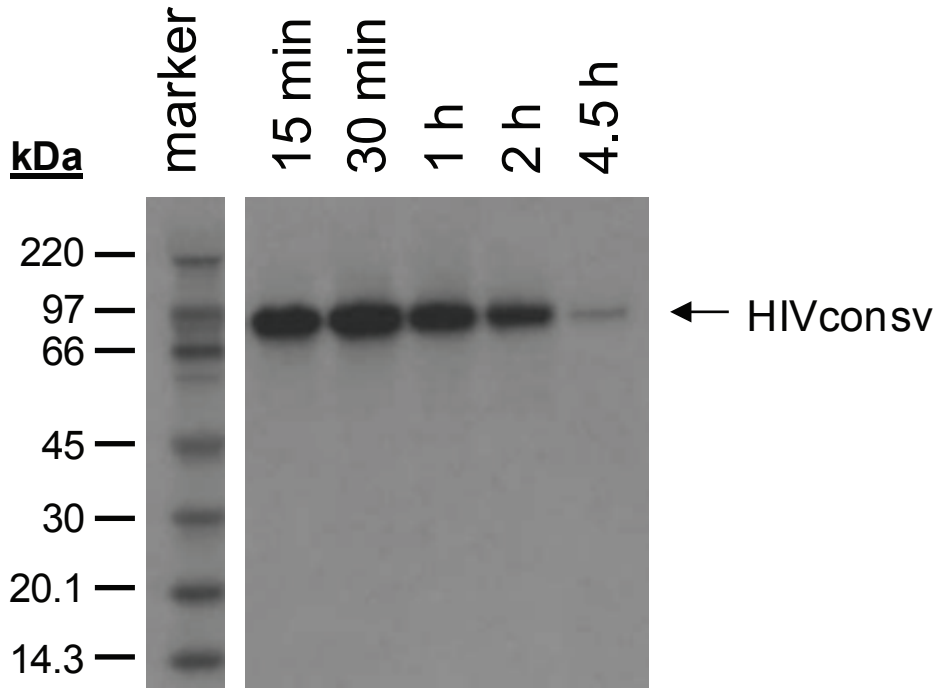
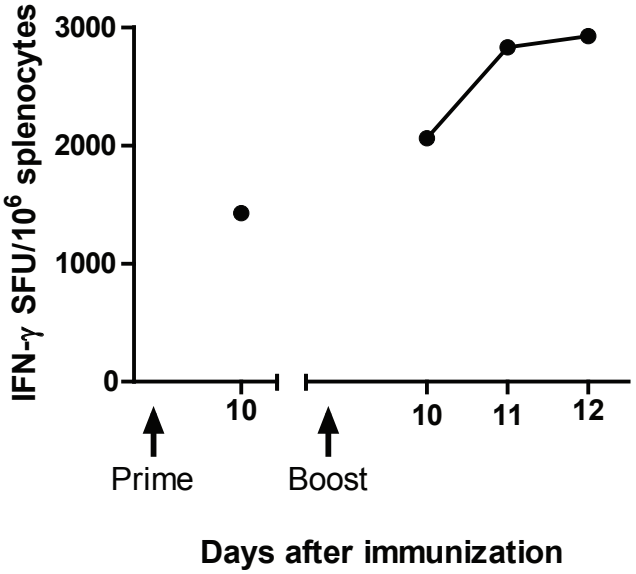


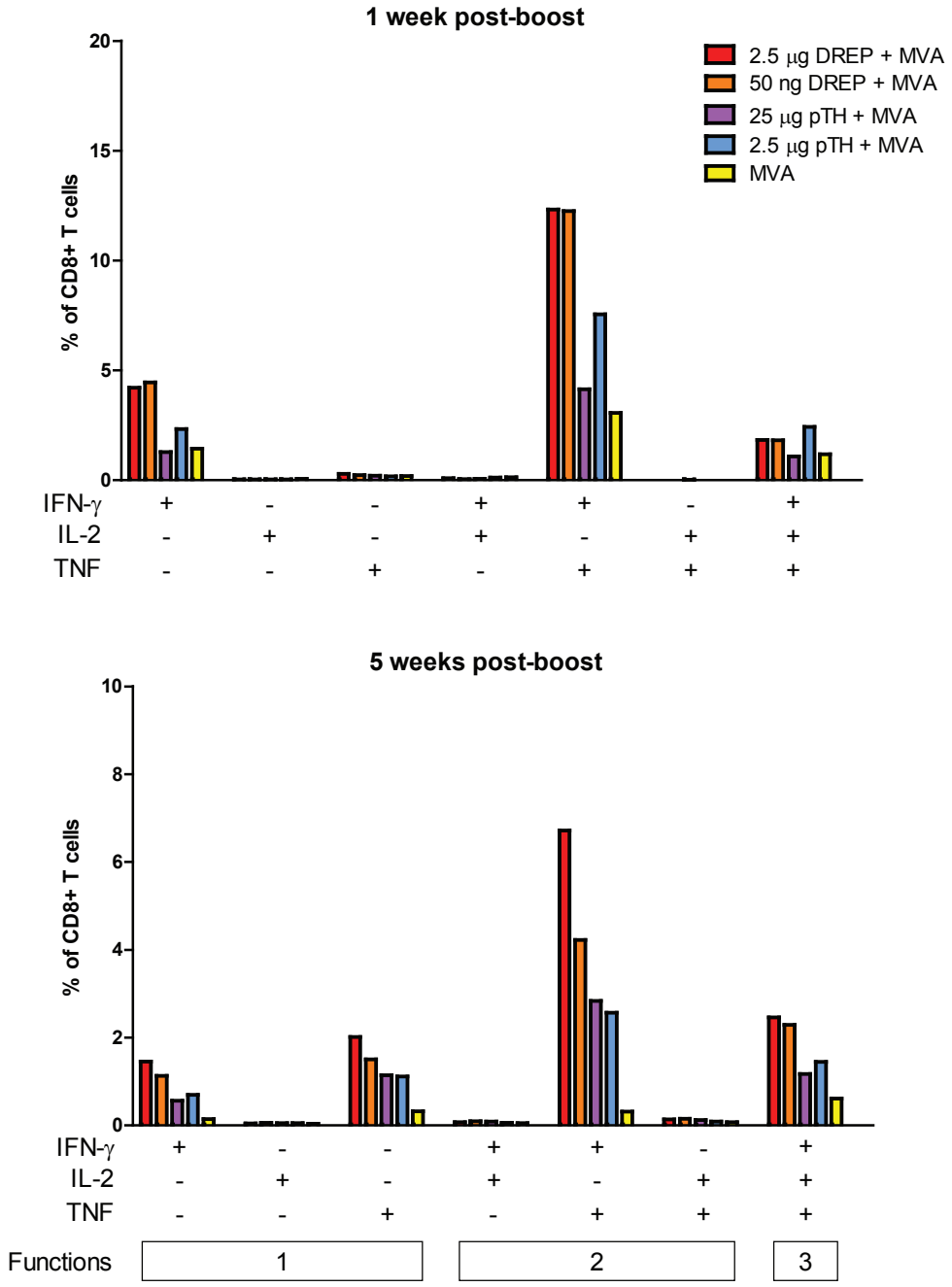
Supplementary figure 1
Gating of cells in ICS analyses.



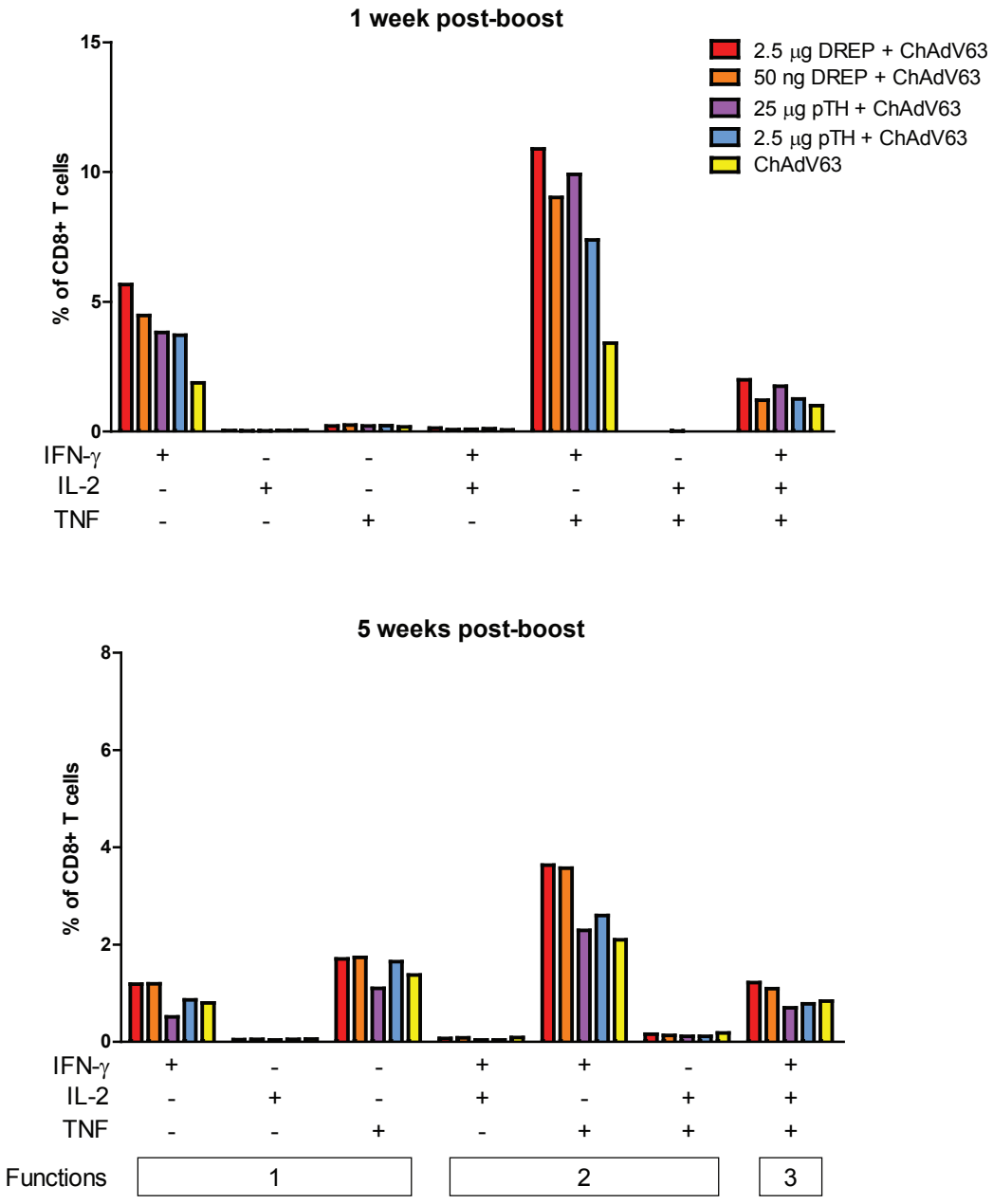
Supplementary Figure 2
Pulse-chase analysis. Cells were infected with VREP.HIVconsv, pulsed with ^{35}S-methionine and subsequently incubated with unlabeled medium for different times, as indicated. Total cell lysates were normalized for total protein content and loaded onto the gel.



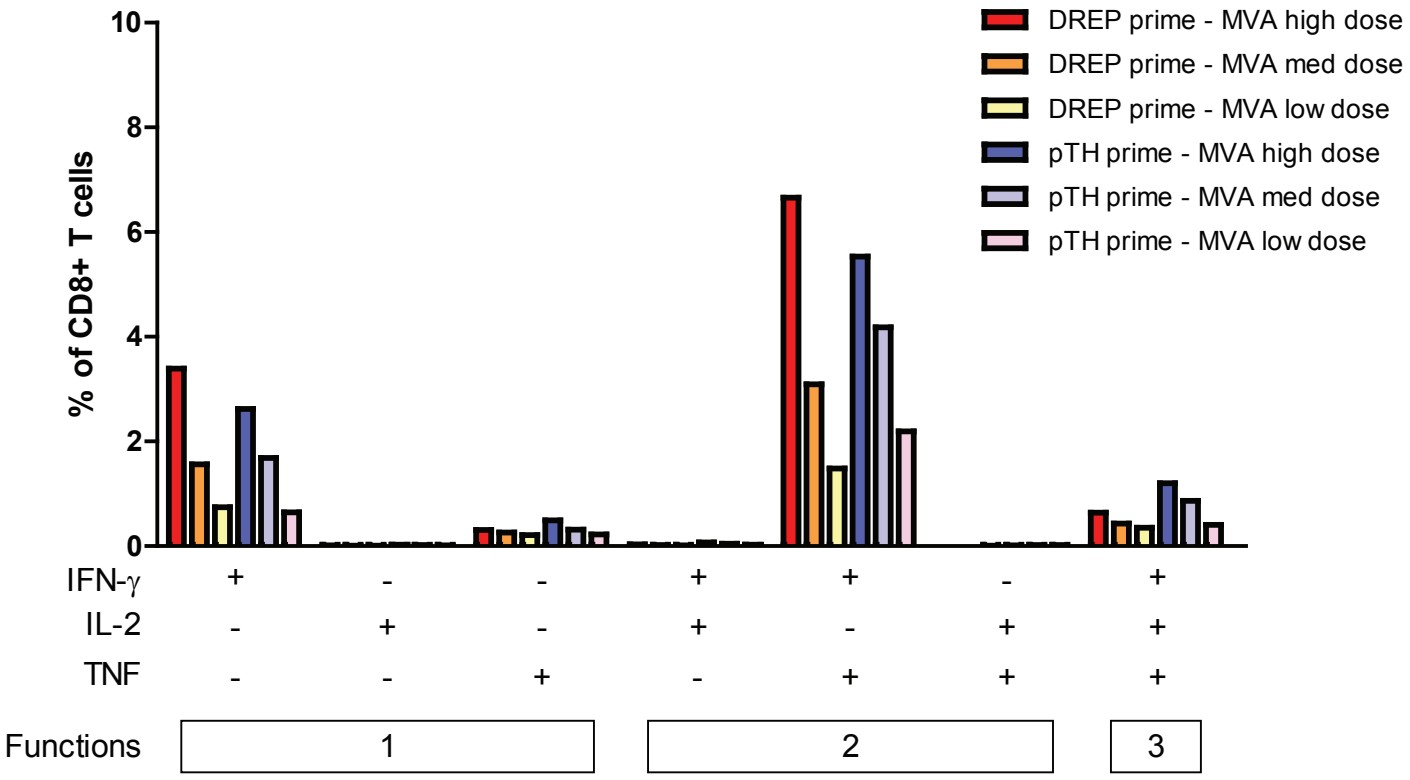
Supplementary figure 3
CD8+ T cell responses following a homologous boost with DREP.HIVconsv. Mice were immunized i.d. with EP with 2.5 μg DREP.HIVconsv. 9 weeks later, a homologous boost was administered in the same way. Spleens were collected and analyzed 10 days post-prime or 10, 11 or 12 days post-boost. HIVconsv-specific CD8+ T cell responses were assessed with IFN-γ ELISpot. Each group consisted of five mice. Results are displayed as group medians.



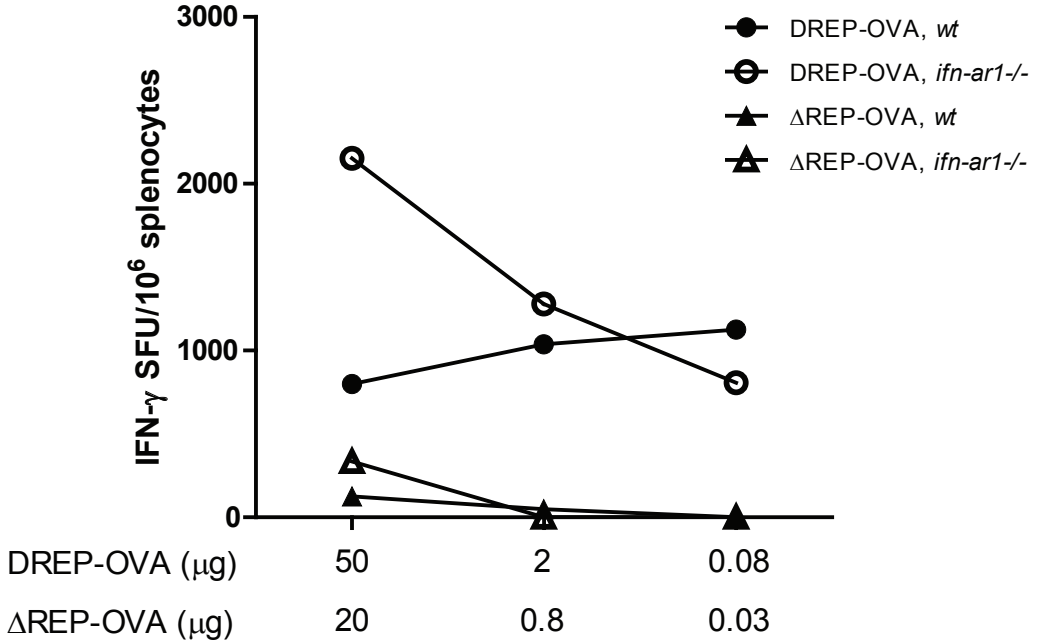
Supplementary figure 4
CD8+ T cell responses following MVA.HIVconsv boost. See figure text for figure 4 for technical details. Results are displayed as group medians.



Supplementary figure 5
CD8+ T cell responses following ChAdV63.HIVconsv boost. See figure text for figure 4 for technical details. Results are displayed as group medians.



Supplementary figure 6
CD8+ T cell responses following heterologous prime-boost. See figure text for figure 5 for technical details. Results are displayed as group medians.



Supplementary figure 7
Influence of type I IFNs following immunization of DREP-OVA with skin EP. SV129 or ifn-ar1-/- (SV129 background) mice were injected with DREP-OVA or ΔREP-OVA i.d. followed by EP. ΔREP-OVA was created by deleting the replicase genes in DREP-OVA (Näslund *et al.* 2011. Virol J 8:36). Spleens were collected 10 days later. OVA-specific CD8+ T cells were assessed with IFN-γ ELISpot by stimulating with the SIINFEKL peptide (Proimmune). Molarly equivalent doses DREP-OVA and ΔREP-OVA are grouped in the graph. Responses are shown as group medians.