SUPPLEMENTARY FIGURES

Title: SR-A and SREC-I are Kupffer and endothelial cell receptors for helper-dependent adenoviral vectors

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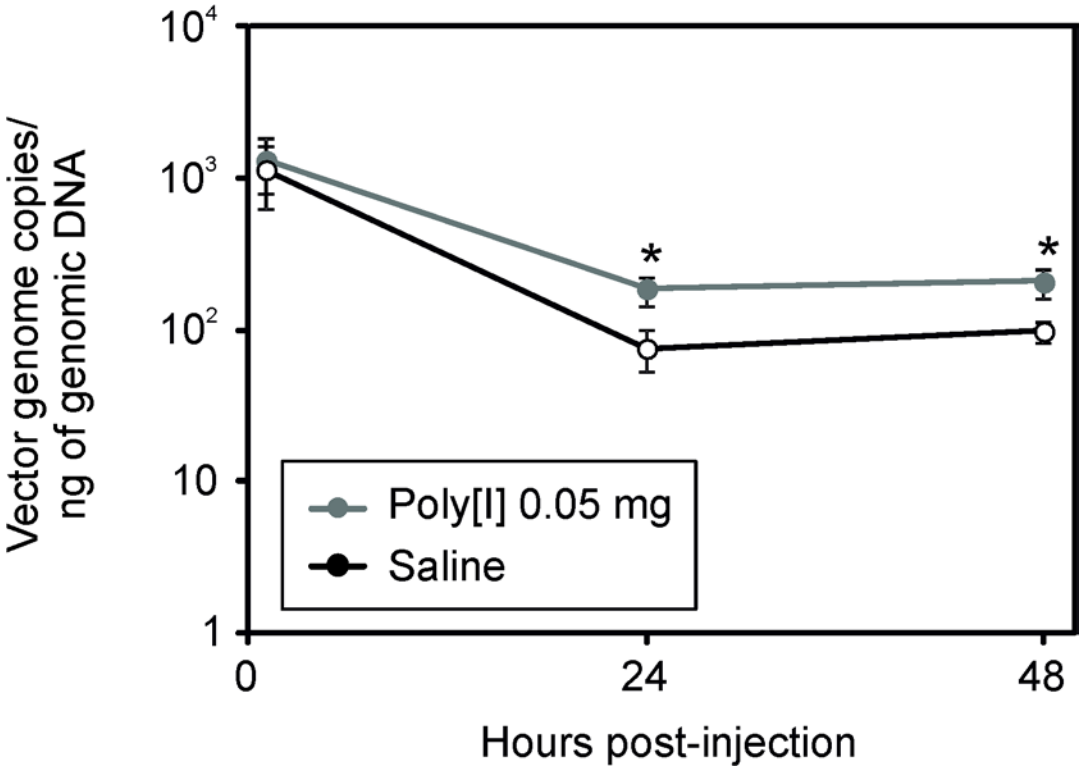
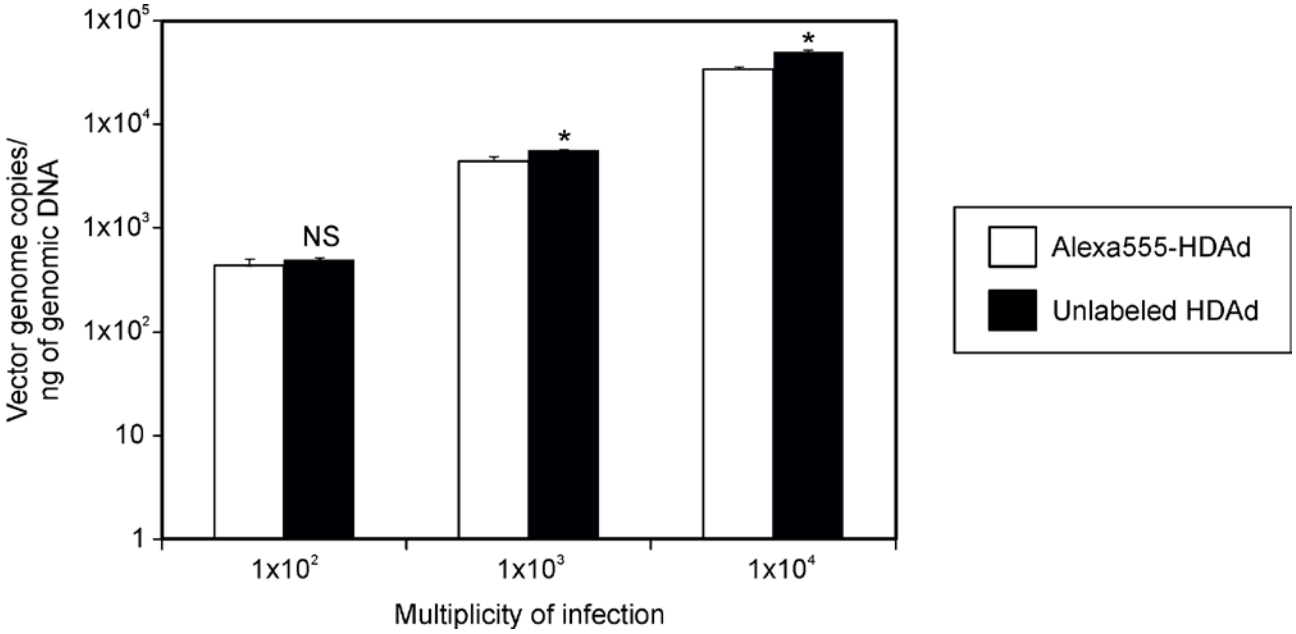
Figure S1. Clearance of HDAd in saline or poly[I] pre-treated wild type C57BL/6 mice.



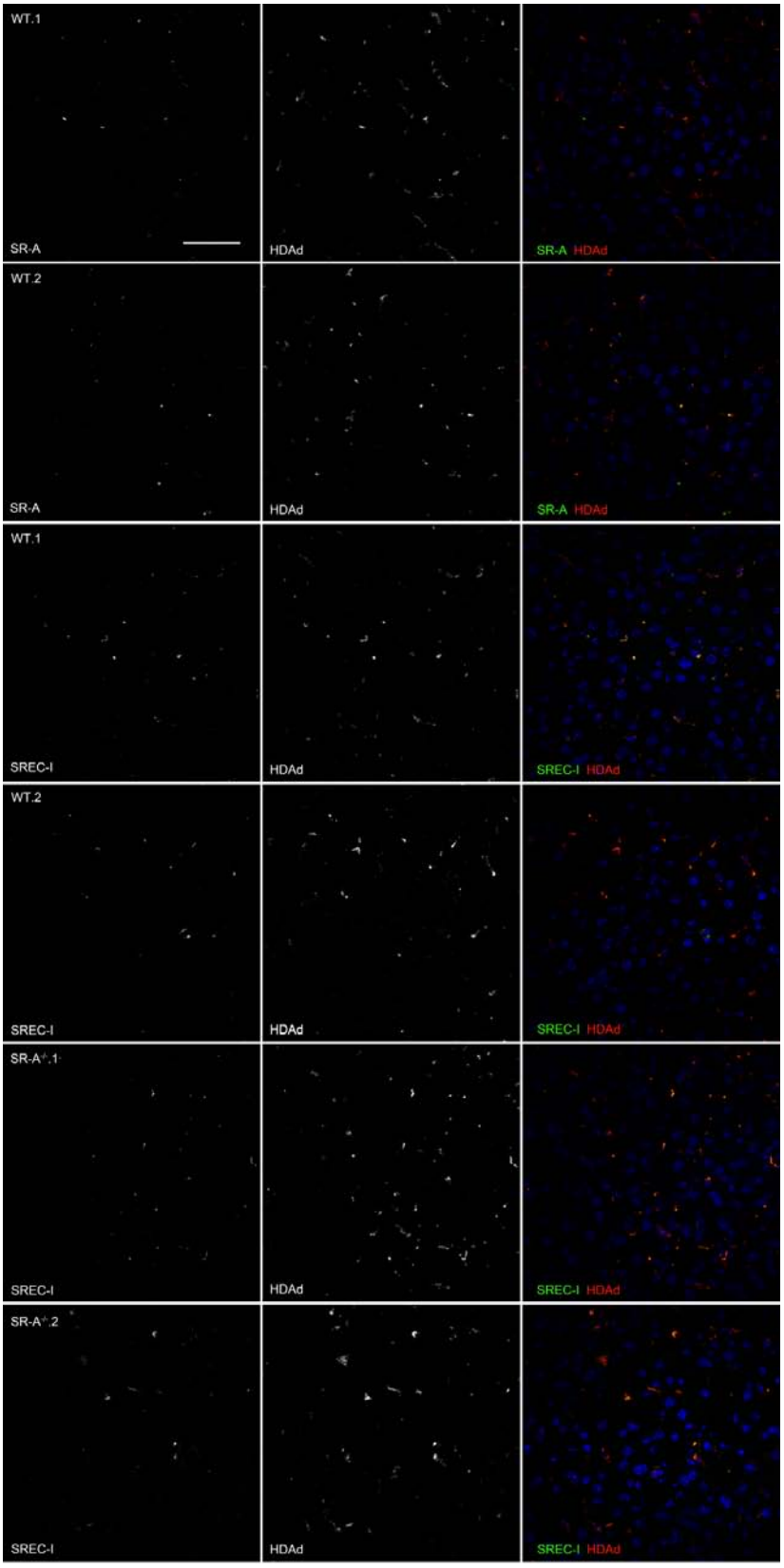
Hepatic HDAd genome copy number in animals pre-treated with poly[I] is approximately 2.5 fold higher (*t*-test*:* *$p<0.05$; n=3 per group) at 24 and 48 hours post-injection as compared to saline pre-treated animals.

Figure S2. Alexa555-HDAd infectivity.



Real time PCR for HDAd copy number in J774A.1 cells infected at different MOI with Alexa555-HDAd or with an unlabeled HDAd. No significant differences were observed with the MOI of 10^2 vp/cell. At the MOI of 10^3 and 10^4 vp/cell, labeled HDAd showed a decrease in infectivity of 27% and 35% respectively compared to unlabeled HDAd (*t*-test*:* *$p<0.01$; n=3 per group). The differences in infectivity observed are within the range of variability in infectivity among vector lots.

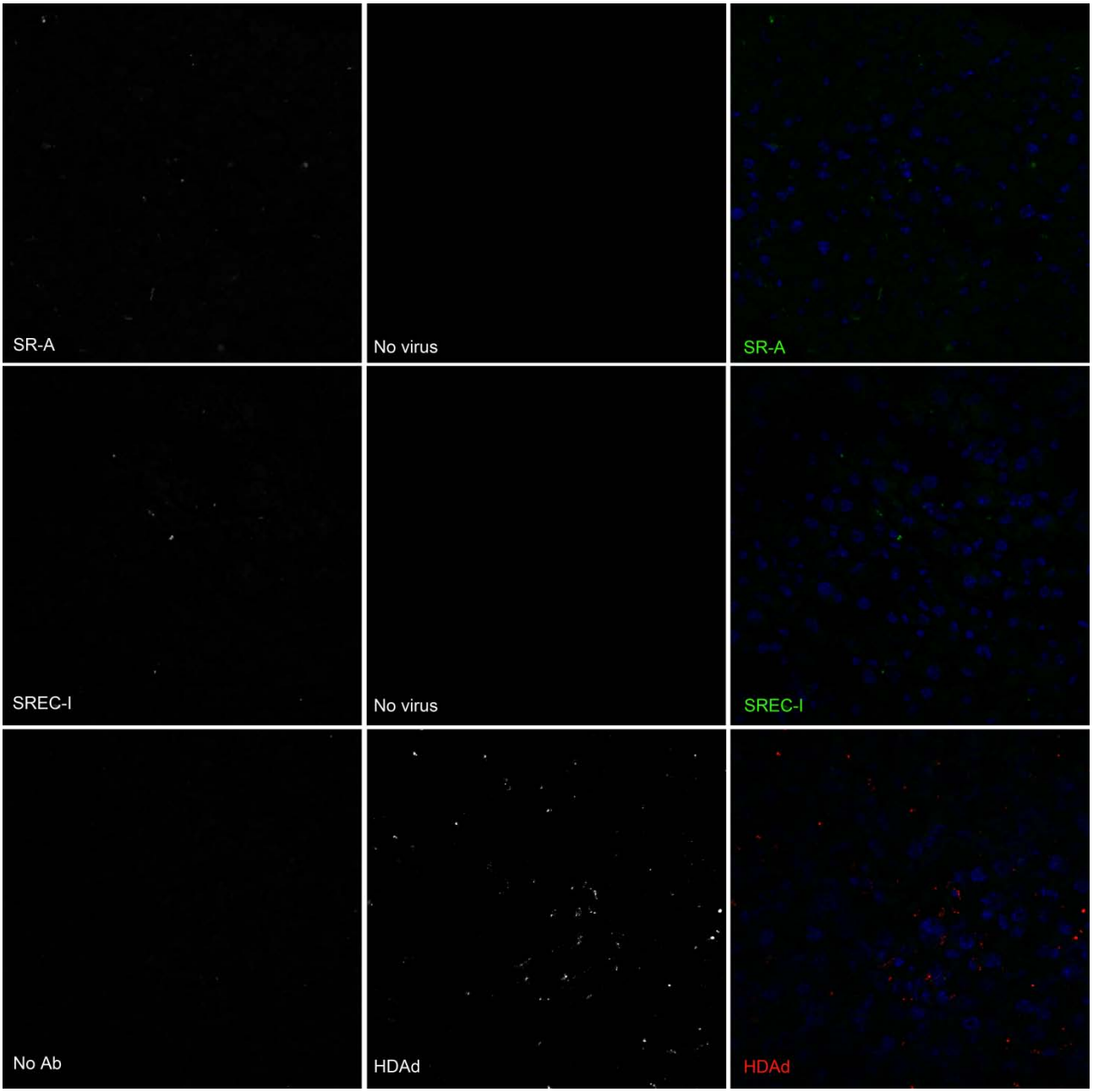
Figure S3. SREC-I and SR-A co-localize with HDAd vector in mouse livers.



Split channels from figure 5. Livers from AlexaFluor-555 labeled-HDAd (*red*) injected wild type C57BL/6 (WT.1 and WT.2) and SR-A$^{-/-}$ mice (SR-A$^{-/-}$.1 and SR-A$^{-/-}$.2) were stained for SR-A

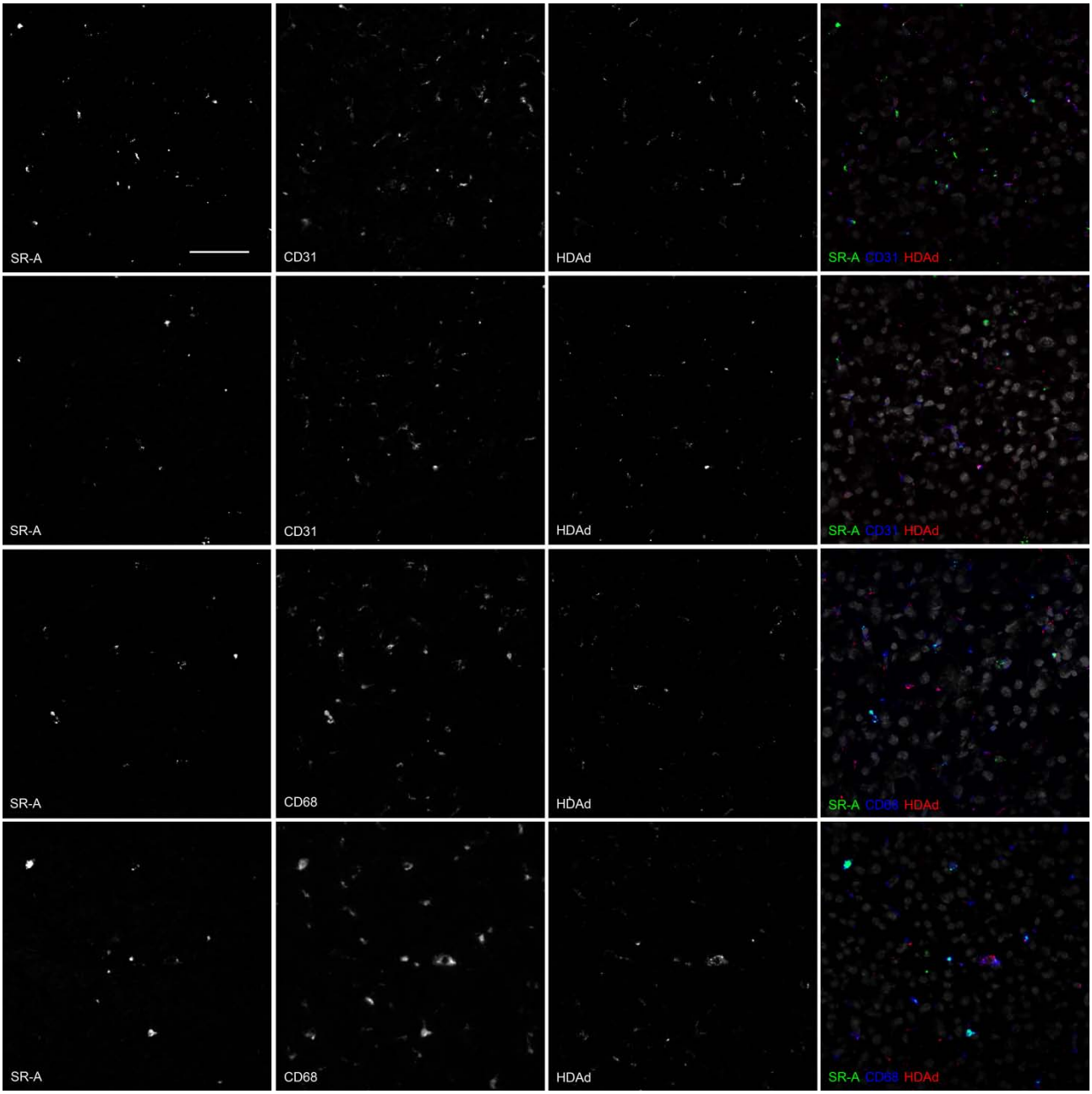
(*green*) and SREC-I (*green*) for confocal analysis. Nuclei were counterstained with DAPI (*blue*). Scale bar: 50 µm.

Figure S4. Controls for SR-A and SREC-I staining and Alexa555-HDAd autofluorescence.



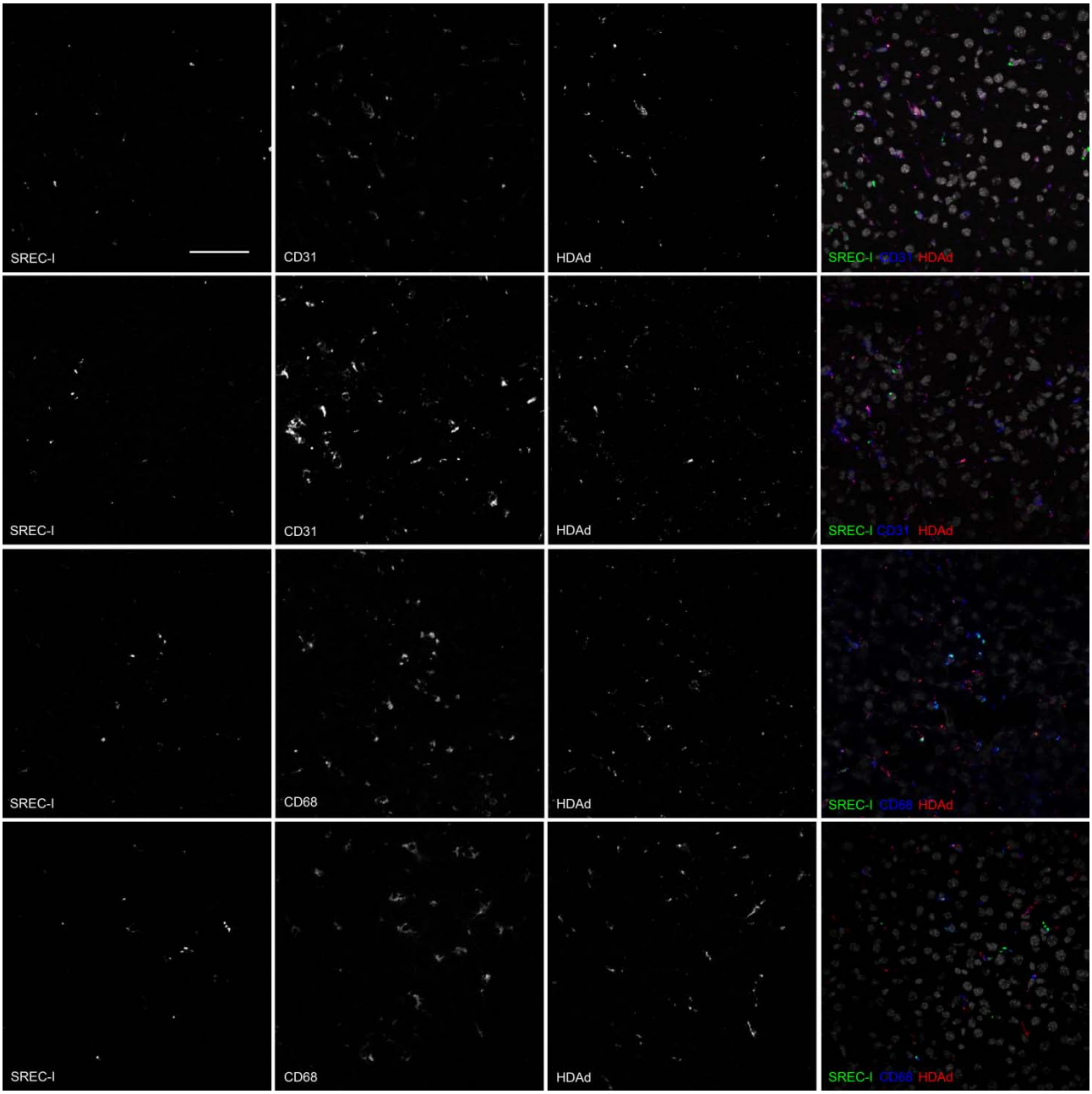
Livers from saline injected wild type C57BL/6 mice stained for SR-A (*green* - upper panels) or SREC-I (*green* - middle panels) and from Alexa555-HDAd injected mice (dose $5x10^{11}$ vp/kg) (*red* - lower panels). Green and red channels are visualized for each panel to rule out excitation cross-talk.

Figure S5. SR-A co-localizes with HDAd particles in both endothelial and Kupffer cells in the liver.



Split channels from Figure 6. Confocal analysis of livers from AlexaFluor-555 labeled-HDAd injected C57BL/6 wild type (WT.1 and WT.2) mice stained for SR-A (*green*) or and CD31 (*blue*) or CD68 (*blue*), as markers of endothelial and Kupffer cells, respectively. SR-A-HDAd double positive signals were detected in both $CD31^+$ and $CD68^+$ cells. Scale bar: 50 µm.

Figure S6. SREC-I co-localizes with HDAd particles in both endothelial and Kupffer cells in the liver.



Split channels from figure 6. Confocal analysis of livers from AlexaFluor-555 labeled-HDAd injected wild type C57BL/6 mice (WT.1 and WT.2) stained for SREC-I (*green*) and CD31 (*blue*) or CD68 (*blue*), as markers of endothelial and Kupffer cells, respectively. SREC-I-HDAd double positive signals were detected in both $CD31^+$ and $CD68^+$ cells. Scale bar: 50 µm.