

Supplementary Figures for:

**Infiltration of Pro-Inflammatory M1 Macrophages Into the Outer Retina Precedes Damage
in a Mouse Model of Age-Related Macular Degeneration**

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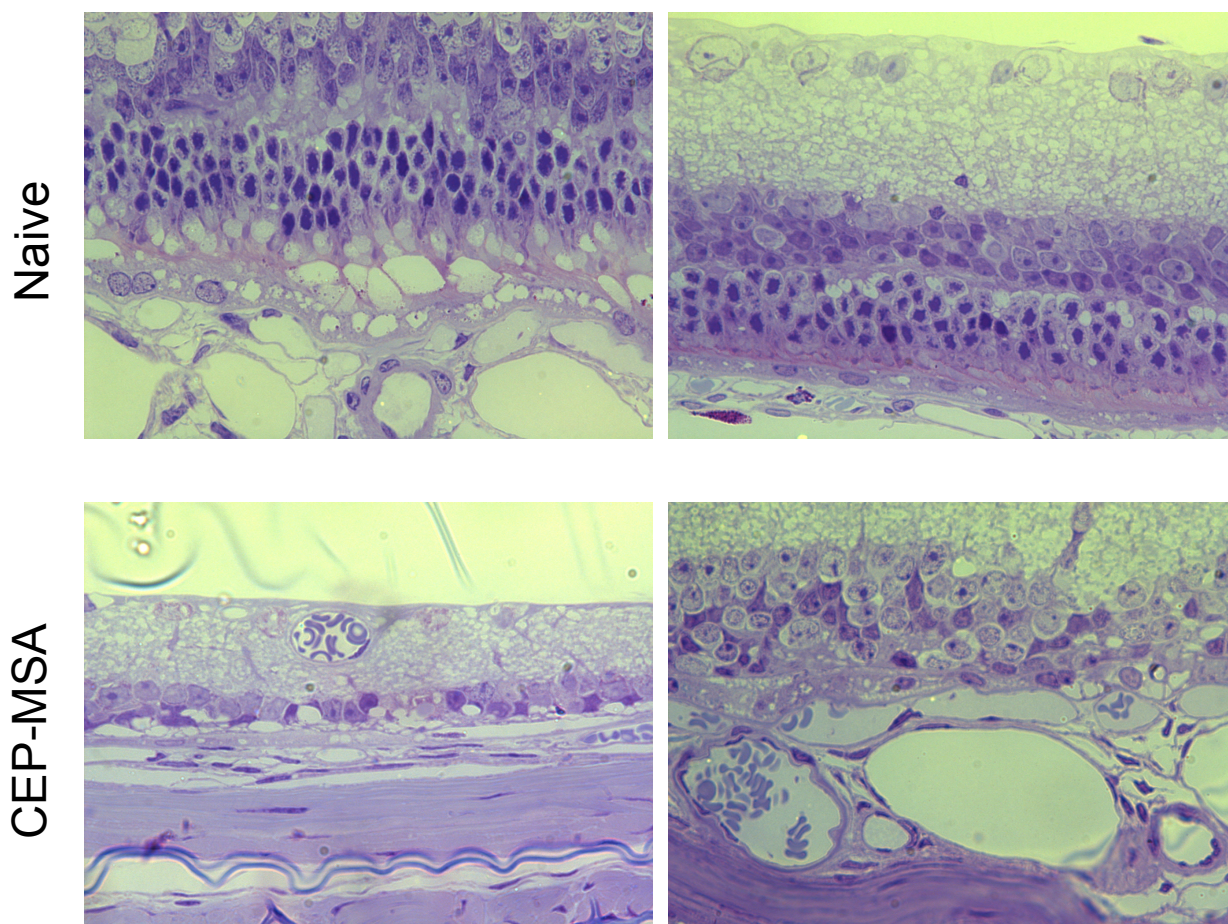
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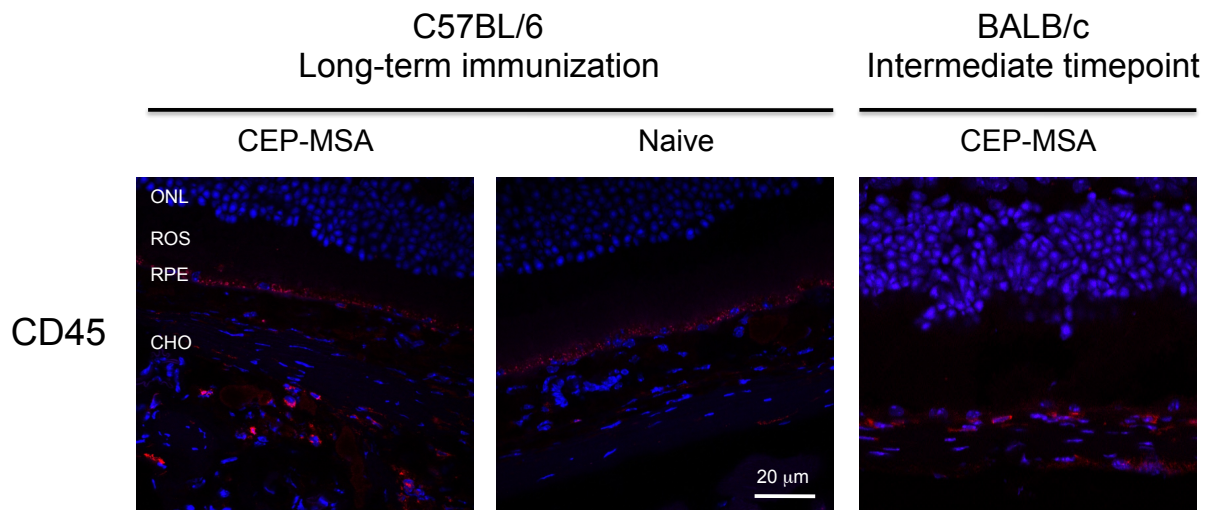
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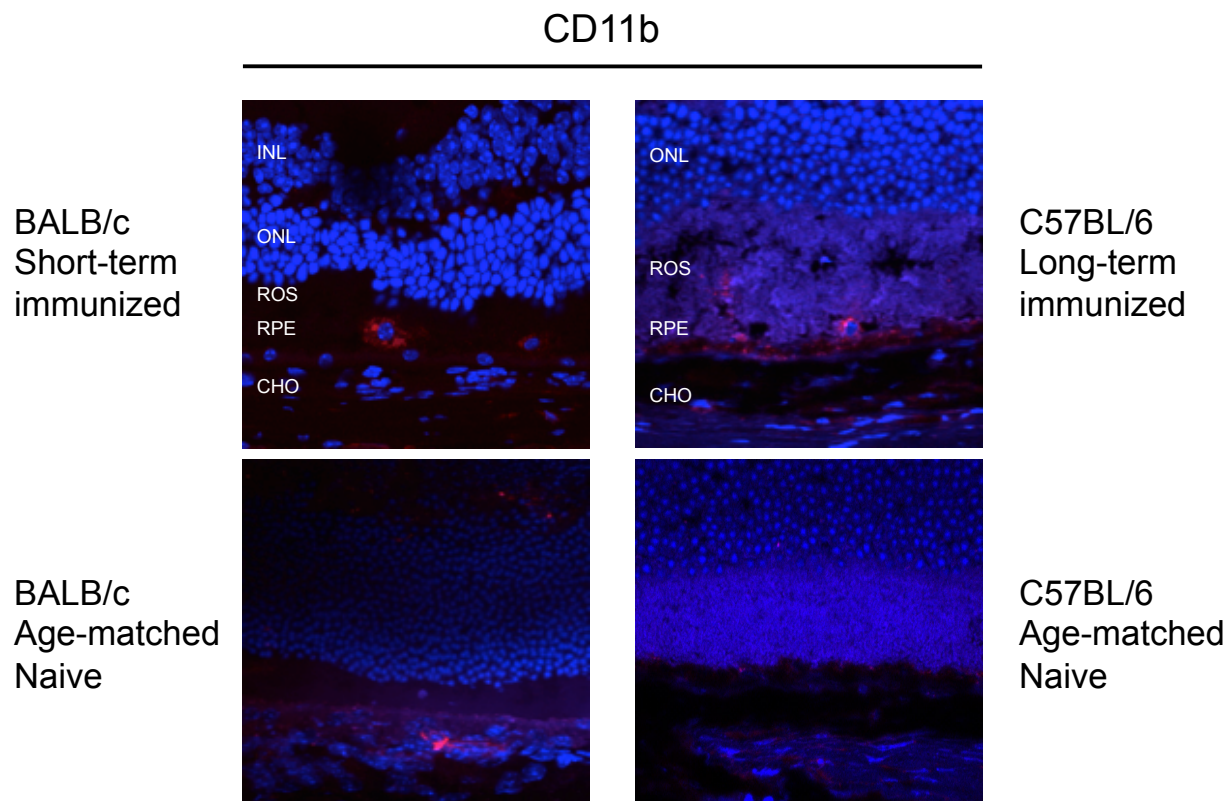
BALB/c late time pathology (d450 p.i.)



Suppl. Fig. 1. *Age-related retinal degeneration in BALB/c mice is exacerbated by CEP-MSA immunization.* Naïve BALB/c mice present obvious signs of outer retinal degeneration by ~18 months of age, such as reduced density of photoreceptor cell nuclei and thinning of the rod outer segment. However, pathology in age-matched CEP-MSA-immunized mice is more severe, with signs of geographic atrophy, areas of complete loss of the photoreceptor cells and possible signs of choroidal neovascularization. Representative images from 3-5 mice per group are shown.



Suppl. Fig. 2. *Inflammatory cells surround the retinas of CEP-MSA immunized mice.* Anti-CD45 stains of frozen sections show the presence of increased numbers of inflammatory cells in the choroid of immunized mice in the B6 background, relative to age-matched naïve mice. Similar data is observed in the BALB/c mice, even at earlier time-points. INL, inner nuclear layer; ONL, outer nuclear layer; ROS, rod outer segment; RPE, retinal pigment epithelium; CHO, choroid. The scale marker represents a 20 μm length.



Suppl. Fig. 3. *Retinal CD11b⁺ macrophages in CEP-MSA-immunized mice.* Anti-CD11b was used to stain frozen sections of eyes from CEP-MSA immunized BALB/c mice at d40-100 p.i., C57BL/6 mice at d200+ p.i. or age-matched naïve controls. Even though naïve mice show macrophage-like cells in the ROS/RPE region by histology, these cells are not CD11b positive. On the other hand, CEP-MSA-immunized mice contain CD11b⁺ cells in the relevant regions, with BALB/c mice showing infiltration at early time points. Representative images from 3-5 mice per group are shown. INL, inner nuclear layer; ONL, outer nuclear layer; ROS, rod outer segment; RPE, retinal pigment epithelium; CHO, choroid.