Supplementary Figure 1

(A-C) Electroretinography (ERG) of 12-month-old Abca1^{F/F} (n=5) and Abca1^{m/m} mice (n=6) (A) Scotopic a-wave amplitude. (B) Scotopic b-wave amplitude. (C) Photopic b-wave amplitude. No significant difference was detected by two-way ANOVA. (D-F) ERG of 24-month-old Abca1^{F/F} (n=4) and Abca1^{m/m} mice (n=5) (D) Scotopic a-wave amplitude. (E) Scotopic b-wave amplitude. (F) Photopic b-wave amplitude. No significant difference was detected by two-way ANOVA. (G) Representative fundus images of 12-month-old Abca1^{F/F} and Abca1^{m/m} mice retinas. (H) Abca1 and Abcg1 expression in peritoneal macrophages from 3-month-old Abca1^{F/F} (n=3) and Abca1^{m/m} mice (n=3). *p<0.05 and ***p<0.001 by two-tailed unpaired t-test. Values are mean ± SE.
Supplementary Figure 2

(A) *Abca1* and *Abcg1* expression in peritoneal macrophages from 3-month-old *Abca1/g1<sup>F/F</sup>* (n=4) and *Abca1/g1<sup>-m/-m</sup>* mice (n=8). ***p<0.001 by two-tailed unpaired t-test. (B) Representative electron microscopy images of peritoneal macrophages of 3-month-old *Abca1/g1<sup>F/F</sup>* and *Abca1/g1<sup>-m/-m</sup>* mice. Note the lipid droplets in macrophages of *Abca1/g1<sup>-m/-m</sup>* mice (red arrowheads). Scale bar: 1 μm. Values are mean ± SE.
Supplementary Figure 3

Representative H and E images of 6-month-old Abca1/g1<sup>F/F</sup> and Abca1/g1<sup>-m/-m</sup> mice retinas. Note the vacuoles in the RPE of Abca1/g1<sup>-m/-m</sup> mice (red arrowheads). ONL: outer nuclear layer. POS: photoreceptor outer segment. Scale bar: 10 μm.
qPCR quantification of Gr-1 expression in the retina/RPE/choroid complex at 12 months of age; Abca1/g1^{F/F}: n=7, Abca1/g1^{-m/-m}: n=7. No significant difference was detected by two-tailed unpaired t-test.