

**Supplemental Figure 4.** HFD cause increased CD11b (green) and Iba1 (red) expression in the ONL. Representative retinal immunofluorescence microscopy results, with (left) and without (right) DAPI staining (blue), showing retinal layers of the (**A**) CL+CON group, the (**B**) CL+HFD group, the (**C**) CD+CON group, and the (**D**) CD+HFD group. Measured fluorescence in the ONL, showing (**E**) CD11b+ increased (1-way ANOVA, F (3, 17) = 8.955, p=0.0009) in both HFD groups while Iba1 increased in the CD+HFD group while ONL Iba1 did not significantly differ between groups (1-way ANOVA, F (3, 17) = 3.061, p=0.056). Images from the CL+CON group (n=5 mice), CL+HFD group (n=4 mice), CD+CON group (n=7 mice), and CD+HFD group (n=5 mice) include both sexes. Data are presented as mean ± SEM and analyzed by 1-way ANOVAs with Dunnett tests. \*p<0.05, \*\*p<0.01, \*\*\*p<0.001 vs CL+CON group. Scale bar = 12µm.