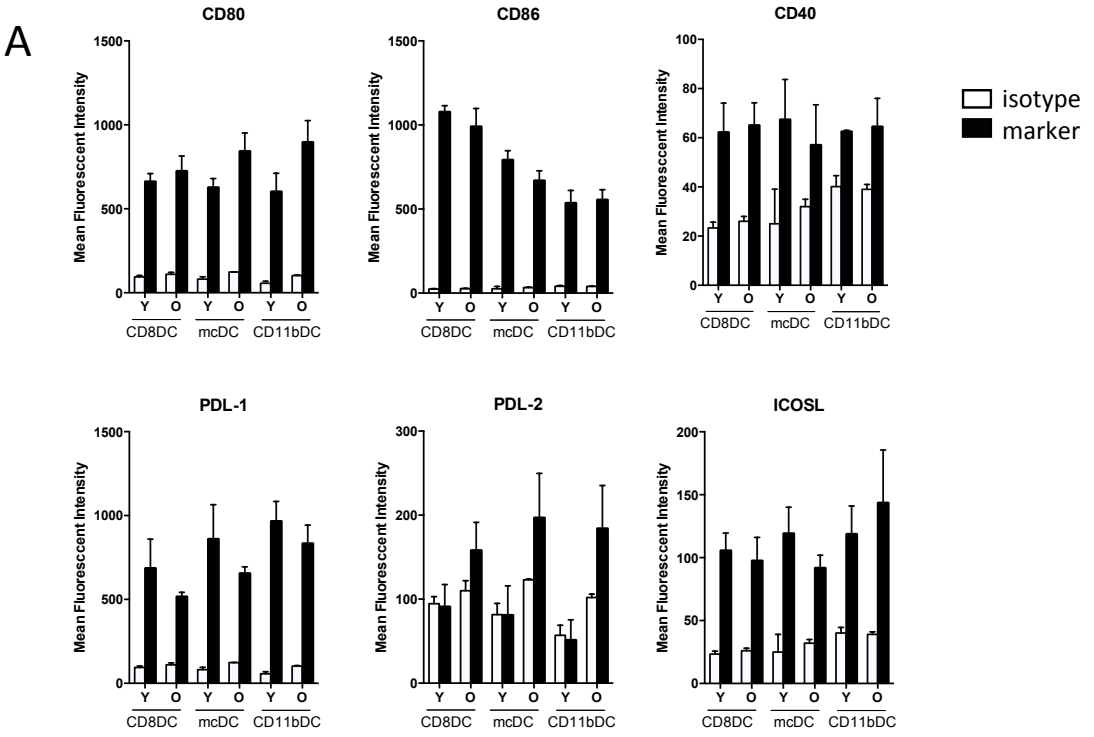
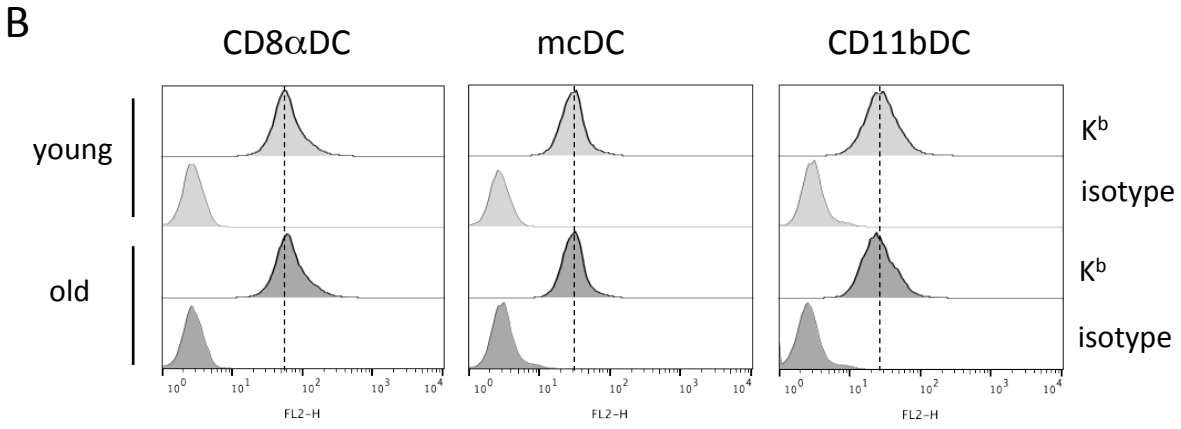
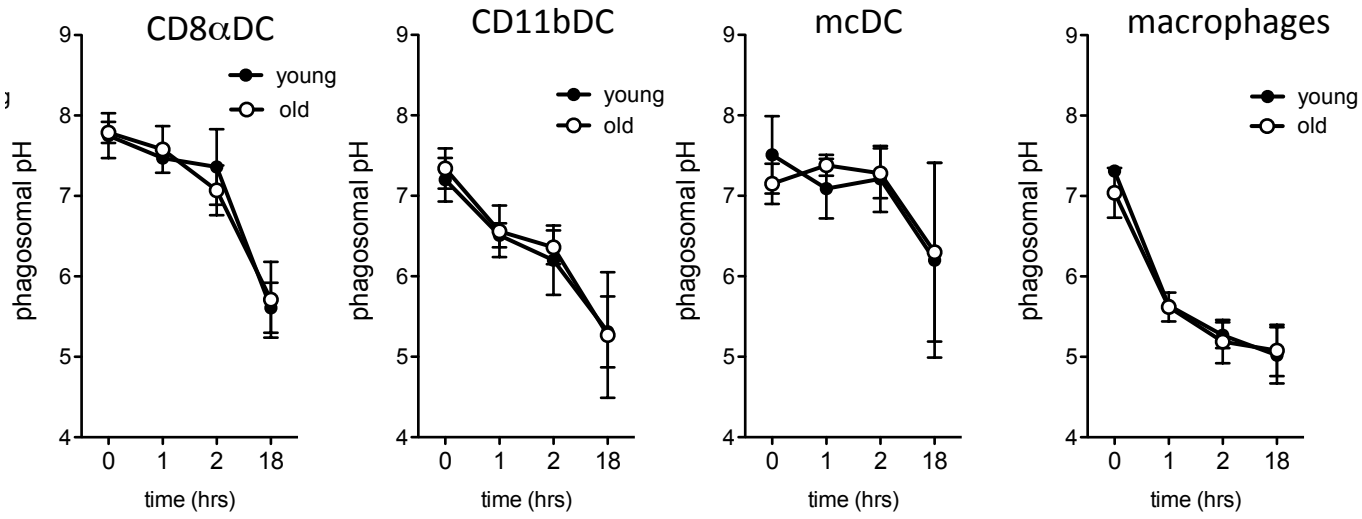
Supplemental Figure 1





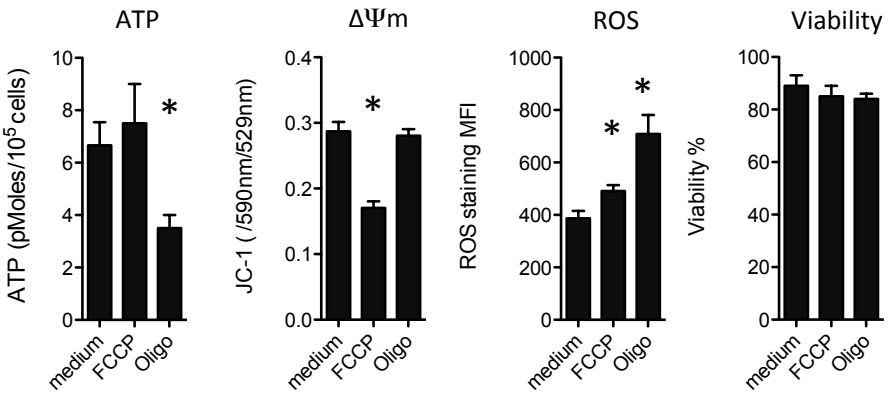
Supplemental figure 1. Surface marker expression on young and aged DCs. Spleens for young and aged mice were stained for lineage, CD11c, MHCII, CD8, CD11b, and indicated markers or appropriate isotype controls and analyzed by flow cytometry. **A.** Mean fluorescent intensity of indicated marker (black bars) and appropriate isotype controls (white bar). Data are expressed as mean ± s.e.m. with n=4-5. **B.** Representative intensity data for Kb and isotype control staining in indicated splenic DC subpopulations of young and aged mice.

Supplemental Figure 2



Supplemental figure 2. Comparable endosomal acidification rate in young and aged DCs.
Young (white circles) and aged (black circles) DCs were cultured with dually-labeled beads (pH sensitive FITC and pH insensitive FluoProbes 647) and analyzed at different time points by flow cytometry, using a gating FCS/SSC selective for cells containing one bead. The ratio of the mean fluorescence intensity (MFI) emission between the two dyes was determined and compared with a standard curve (ranging from pH 5.5 to 8). Data are expressed as mean ± s.e.m. with n=3.

Supplemental figure 3



Supplemental figure 3. Effect of FCCP and Oligomycin on viability and mitochondrial function.

Young DCs were cultured for 4 hrs in the presence of vehicle, FCCP, or oligomycin after which intracellular ATP levels, mitochondrial membrane potential ($\Delta\psi_m$), ROS production, and viability were determined. One (out of 3) experiments is shown. Data are expressed as mean ± s.e.m. with n=3.*, $p<0.05$.