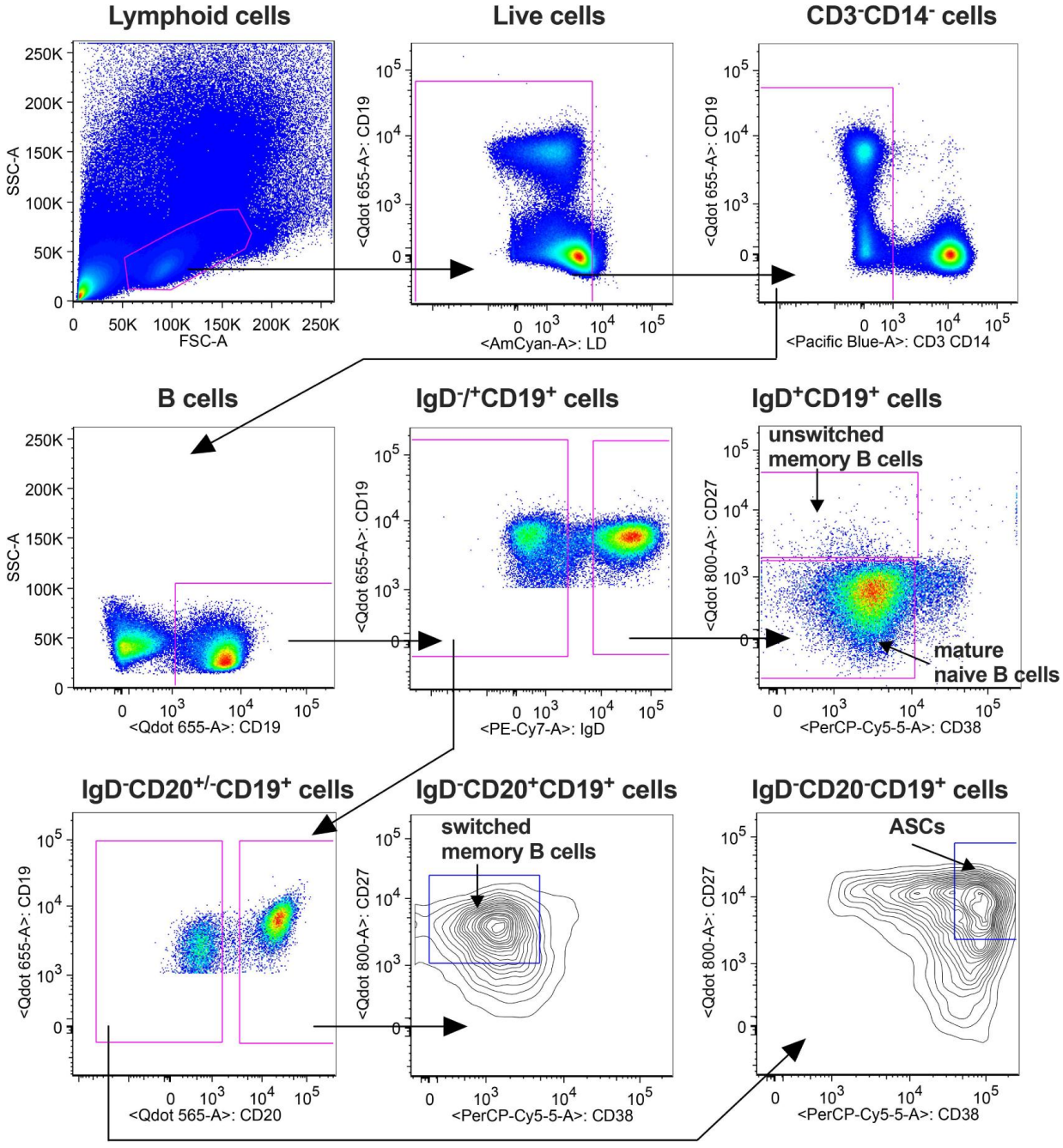
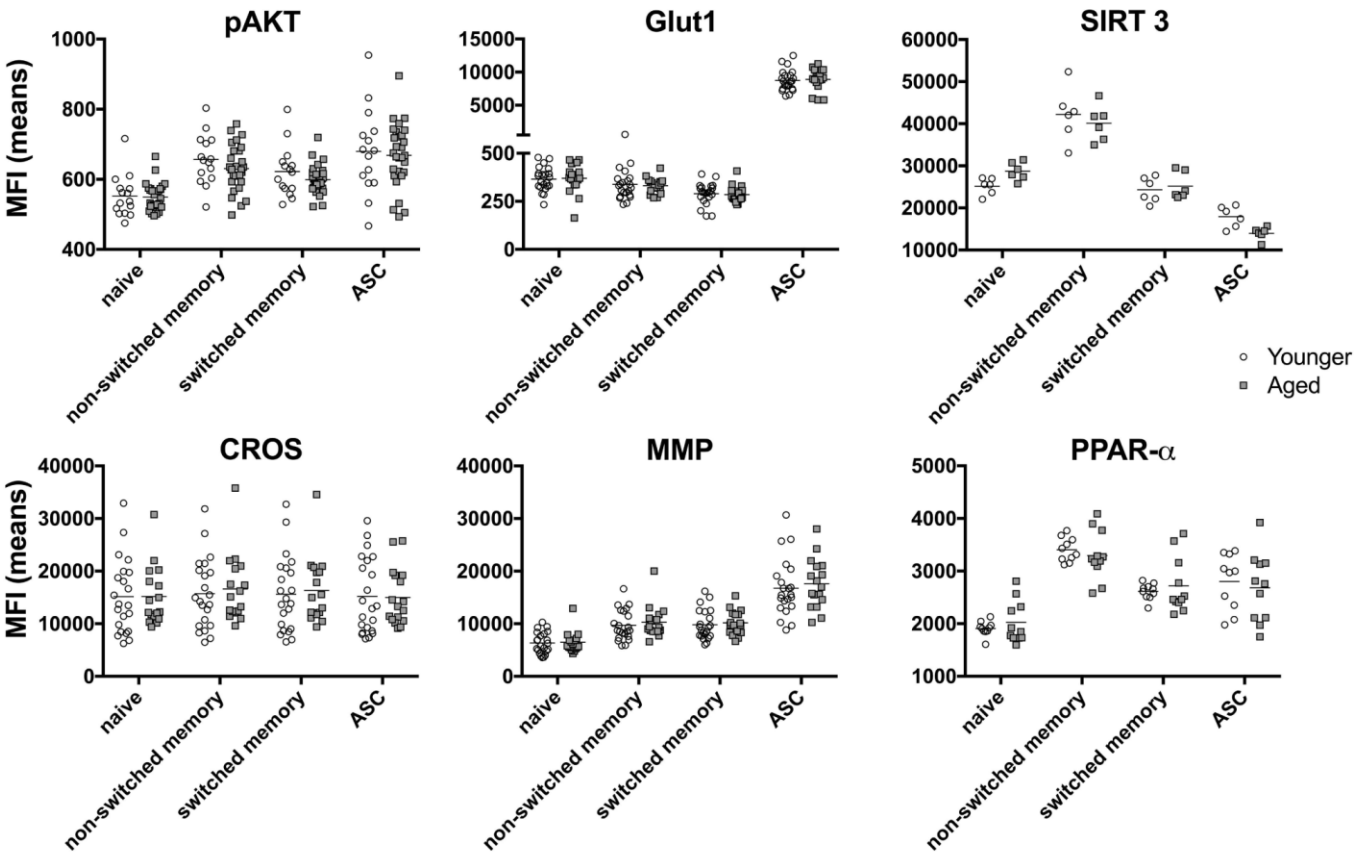
SUPPLEMENTARY FIGURES



Supplementary Figure 1. Gating strategy for B cell subsets. PBMCs were stained with antibodies to CD3 and CD14 both labeled with Pacific Blue, a live cell stain, antibodies to CD19 (Qdot 655-A), IgD (PE-Cy7), CD27 (Qdot 800-A), CD38 (PerCP-Cy5-5-A) and CD20 (Qdot 565-A). Cells were first gate on lymphoid cells, then on singlets (not shown), live cells, $CD3^-CD14^-$ cells and $CD19^+$ B cells. B cells were gated onto IgD^+ cells to identify $CD27^-CD38^-$ mature naïve B cells and $CD27^+CD38^-$ unswitched memory B cells, IgD^- cells were used to identify $CD20^+$ and $CD20^-$ cells. $CD20^+$ cells were used to identify $CD27^+CD38^-$ switched memory B cells and $CD20^-$ cells were used to identify $CD27^+CD38^+$ ASCs. The sample was collected at v1 from an aged individual.



Supplementary Figure 2. Metabolic phenotypes of B cells. Graphs show mean fluorescent intensity (MFI) of stains for the indicated markers in or on different B cell subsets, i.e., naïve B cells ($IgD^+CD19^+CD27^-CD38^-$), unswitched memory B cells ($IgD^+CD19^+CD27^+CD38^-$), switched memory B cells ($IgD^-CD20^+CD19^+CD38^+CD27^-$) and ASCs ($IgD^-CD20^-CD19^+CD38^+CD27^+$) of younger (open circles) or aged (grey squares) individuals. Graphs show results for individual samples with means.