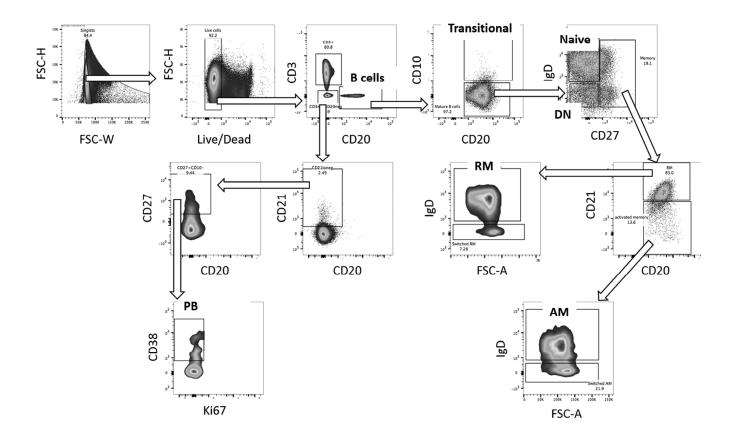
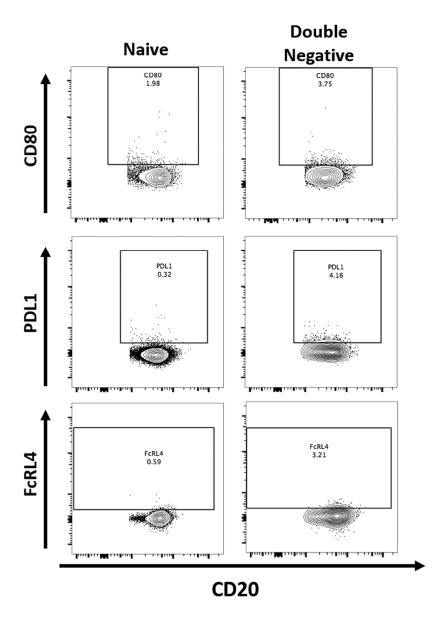


Supplementary Figure 1. Correlation between age and H1N1-specific serological response in HIV and HC. Age was correlated with H1N1 specific fold change T2/T0 (Top) and HAI titer at T0 (Bottom) in 60 Healthy controls (Left, Grey) and 64 HIV infected individuals (Right, Black). Spearman correlation was performed. Serological values are expressed as log2 scale. Age groups depicted as squares (young, <40 years), triangles (middle, 40-59 years) and circles (old, ≥60 years).



Supplementary Figure 2. Gating strategy for the identification of the different maturation B cells subsets in live PBMC. B cells identified as CD3-CD20+ were gated for CD3-CD20+CD10+ (Transitional B cells), CD3-CD20+CD10-IgD+CD27- (Naïve B cells), CD3-CD20+CD10-IgD-CD27- (Double Negative B cells, DN). Memory B cells (CD3-CD20+CD10-CD27+) were divided into CD3-CD20+CD10-CD27+CD21+IgD- (Resting memory B cells, RM) and CD3-CD20+CD10-CD27+CD21lowIgD- (Activated Memory B cells. AM). Plasmablasts (PB) were characterized as CD3-CD20lowCD21lowCD27+CD38+Ki67- based on the gating strategy from B cells as shown.



Supplementary Figure 3. Gating strategy for the identification of CD80+, PDL1+ and FcRL4+ in the Naïve and Double Negative B cells.