

Supplementary Figures

Figure Legends

Supplementary Figure S1. Marginal zone (MZ) and precursor-like (MZp) B-cell populations bind to fully glycosylated gp120 and this is increased by BAFF.

Flow cytometry analyses of negatively enriched total B-cells from the blood of an HIV-uninfected donor (**A-B**). Dot plots showing proportion of live gated blood CD19⁺ B-cells binding to fully glycosylated gp120 (top panels), and following pre-incubation of cells with mannose at 5 mg/ml for 40 minutes (bottom panels) (**A**). Gp120 binding B-cells were majorly IgM⁺ and comprised CD27⁺CD1c⁺CD21⁺ innate marginal zone (MZ) B-cells. Representative dot plots showing a negligible proportion of CD19⁺ B-cells binding to partially glycosylated gp120 (Δ V1-V2-V3) (**B**). Negatively enriched total B-cells from the tonsils of an HIV-uninfected donor (**C-E**). Dot plots showing proportion of live gated tonsillar CD19⁺ B-cells binding to fully glycosylated gp120 following culture with medium alone (MA) or BAFF at 125 ng/mL for 18 hours (**A**). Frequencies of MZ (**B**) or MZp (**C**) binding to fully glycosylated gp120 following culture with MA or BAFF at 125 ng/ml.

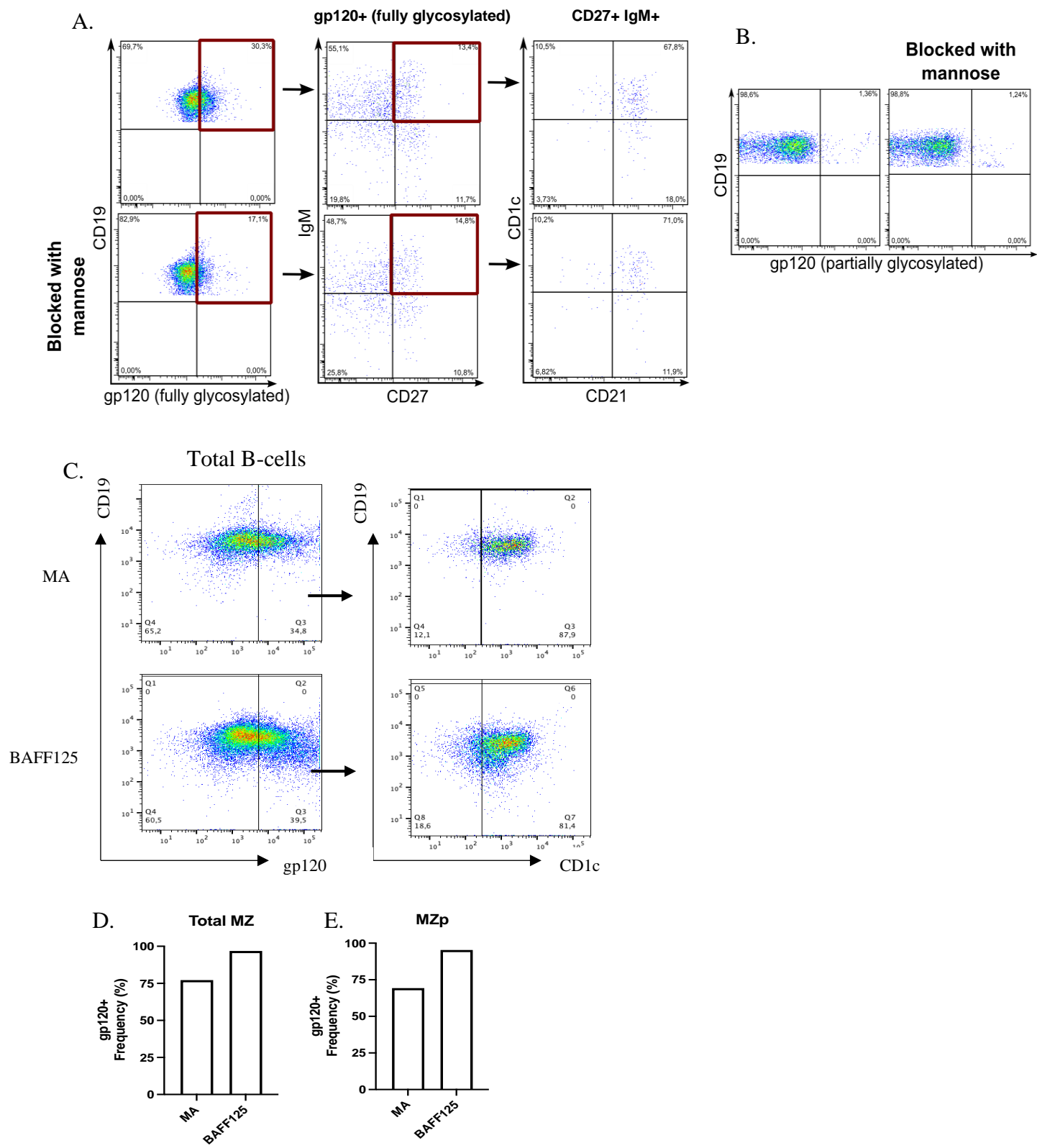
Supplementary Figure S2. C-type lectins gene transcripts expressed by blood marginal zone (MZ) and precursor-like MZ (MZp) B-cells.

RNAseq analyses of marginal zone (MZ) and precursor-like MZ (MZp) B-cells sorted from the blood of HIV-1-uninfected controls (HIV-), 5-8 months HIV-1-infected classic progressors (HIV+) and elite controllers (EC), demonstrating gene expression levels of CLEC2A (**A**), DCIR (**B**), CLEC16A (**C**), α 4 (**D**), β 7 (**E**), DEC205 (**F**). N=3 for each study group. *P < 0,05; ** P< 0,01; *** P< 0,001; ****P< 0,0001. The Wald Test with Benjamini-Hochberg correction was used for RNAseq analysis.

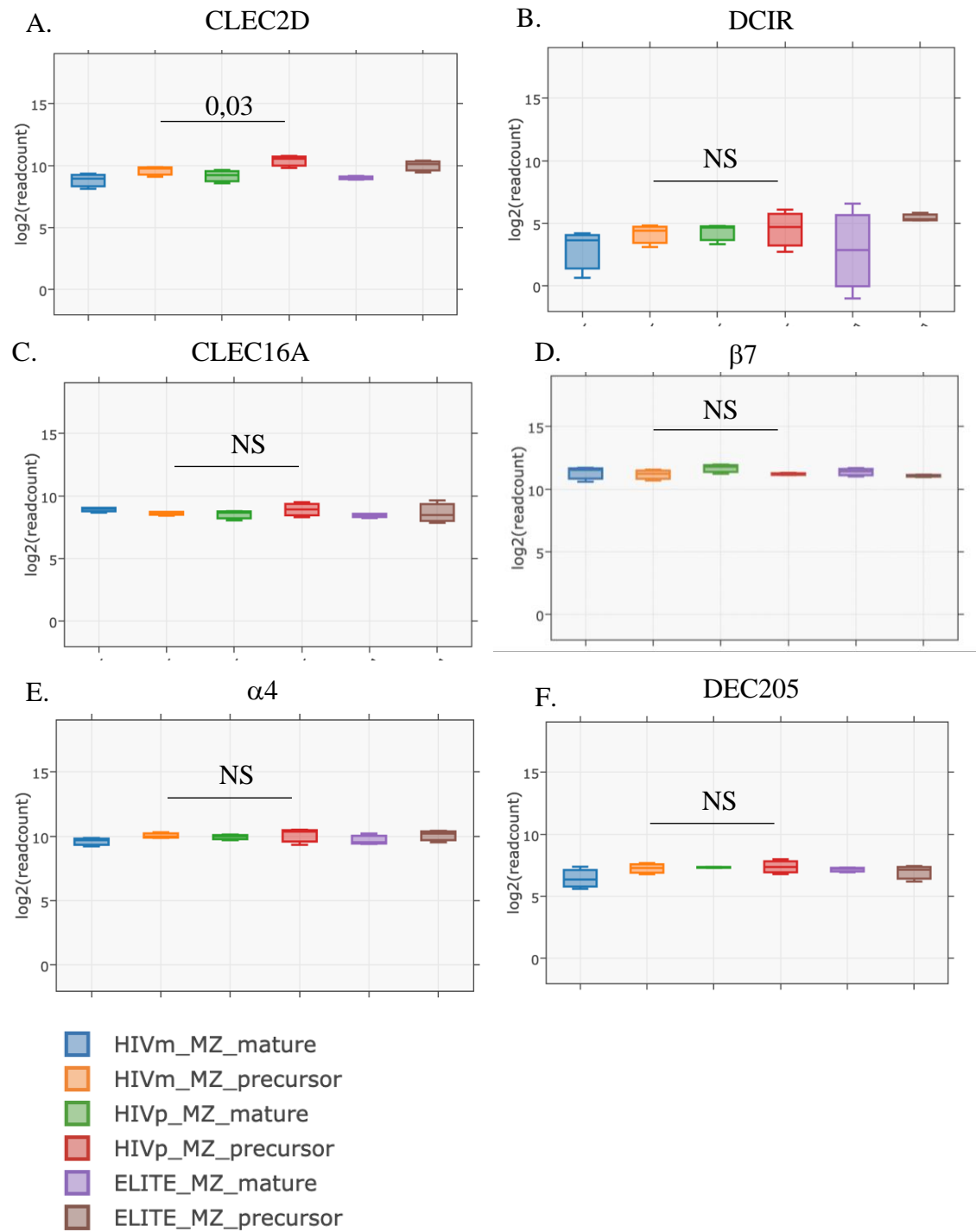
Supplementary Figure S3. Effect of adding gp120 on Ig production by total tonsillar B-cells.

Multiplex analyses of concentrations of total IgM (**A-E**), IgG1 (**B-F**), IgG3 (**C-G**) and IgA (**D-H**) measured in day 7 supernatants of total tonsillar B-cells cultured either with medium alone (MA), TLR7 agonist or gp120 Bal or IIIB, with or without BAFF at 125 ng/ml. Data are presented for donors LFB-019 (**A- D**) n=2 and D013 (**E- H**) n=2.

Supplementary Figure S1



Supplementary Figure S2



Supplementary Figure S3

