**Supplementary Figure 1.** Representative plot showing the gating strategy used to define activated T cell populations by flow cytometry. Peripheral blood mononuclear cells were stained were stained with fluorochrome-labelled monoclonal antibodies to define CD3 (APC-H7), CD4 (PerCPCy5.5), CD8 (QDot605), CCR5 (APC), CD38 (PE-CY7), HLA-DR (PE), Ki67 (FITC) and CD14/CD19/LIVE/DEAD Fixable Violet Dead Cell Stain (Pac Blue). Cell doublets/aggregates were removed by gating on singlets. Live CD3+ T cell populations were differentiated into CD4+ and CD8+ T cell subsets, although only CD4+ T cell activation data is shown in this manuscript. Overall expression frequencies of activation markers as well as that of the permutations of expression that contributed to that frequency were evaluated.

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| Supplementary Table 1. Genital cytokine concentrations# according to partner HIV status | | | |
| Cytokine | HIV+  Concordant Partnership | HIV+  Discordant Partnership | Unadjusted P-value\* |
| IL-1β | 4.07 (0.69-7.14) | 3.21 (1.1-12.8) | 0.3 |
| IL-1α | 34.96 (15.52-99.38) | 39.92 (17.62-122.1) | 0.8 |
| IL-6 | 18.39 (4.9-55.6) | 11.46 (4.63-33.18) | 0.07 |
| IL-8 | 153.6 (56.67-344.5) | 123.3 (61.67-424.3) | 0.8 |
| IP-10 | 441.1 (172.7-1002) | 336.8 (100.2-867.7) | 0.3 |
| MCP-1 | 42.83 (16.41-122.6) | 43.26 (15.97-96.65) | 0.7 |
| MIP-1α | 13.64 (1.36-38.16) | 15 (1.36-40.28) | 0.6 |
| MIP-1β | 29.26 (10.10-43.71) | 30.24 (3.71-54.74) | 0.8 |
| IL-12p40 | 34.51 (5.64-67.33) | 29.93 (3.55-80.7) | 0.8 |
| IL-15 | 2.07 (1.24-4.1) | 1.78 (0.88-4.55) | 0.9 |
| IL-10 | 2.6 (1.26-5.65) | 2.91 (1.05-6.29) | 1 |
| Eotaxin | 15.5 (3.5-21.22) | 12.75 (5.17-25.52) | 0.9 |
| Fractalkine | 77.41 (29.66-144.8) | 56.44 (10.97-149.8) | 0.5 |
| G-CSF | 759.8 (200.7-1847) | 403.4 (117.5-1522) | 0.1 |

#Median cytokine concentrations in cervical cytobrush supernatants (pg/ml). \*Mann-Whitney U tests were applied to compare cytokine concentrations between the seroconcordant and serodiscordant groups.