

Supplementary Table 1 – Description of the antibodies used for immunophenotyping.

| IMMUNOPHENOTYPING | | | |
|------------------------------------|--------------------|--------------|--------------------------------|
| Cell type | Antibody | Laser | Reference |
| T cells | CD3 | FITC | BD 559975 |
| T helper cell | CD4 | BV510 | BD 740138 |
| T cytotoxic cell | CD8 | BUV395 | BD 740257 |
| B cells | CD45RA | PE Cy5 | BD 561624 |
| Activation marker | CD25 | BV650 | BD 742755 |
| NK cells | CD161a | BV605 | BD 744051 |
| Macrophages, dendritic cells | CD11b/c | BB700 | BD 746165 |
| Activation marker B cells | RT1B | BV786 | BD 744131 |
| T regulatory cells | FoxP3 | APC | BD 566527 |
| Viability marker | Live/Dead | APC Cy7 | Biologend 423105 |
| NK CELL MATURATION ASSAY | | | |
| T cells | CD3 | PerCP Cy5.5 | ThermoFisher 46-0030-82 |
| NK cell | CD161a | BV605 | BD BV605 |
| NK cell phenotypic marker | NKp46 (CD335) | APC | Biologend, 250808 |
| NK cells maturation marker | CD27 | BUV737 | BD 612831 |
| NK cells maturation marker | CD11b | PE | BD 562105 |
| Viability marker | Live/Dead | APC-Cy7 | Biologend 423105 |
| NK CELL CYTOTOXICITY ASSAY | | | |
| Viability marker | TO-PRO | APC | ThermoFisher Scientific T3605 |
| Viability marker | Cell Tracer Violet | Pacific Blue | ThermoFisher Scientific C34571 |
| NK CELL DEGRANULATION ASSAY | | | |
| T cells | CD3 | BV510 | BD 563109 |
| NK cell phenotypic marker | CD19 | PE-Cy5 | Biologend 302210 |
| NK cell phenotypic marker | CD16 | BUV496 | BD 564653 |
| NK cell phenotypic marker | CD56 | BV711 | BD 563169 |
| NK cell functional marker | CD107a | FITC | Biologend 328606 |
| Cytokine | IFN γ | PE | BD 502509 |
| Viability marker | Cell Tracer Violet | Pacific Blue | ThermoFisher Scientific C34571 |
| Viability marker | Live/Dead | APC Cy7 | Biologend 423105 |

SupplementaryTable 2 - Clusters obtained from viSNE unbiased phenotyping. Association of the markers used with each cluster and p values obtained after statistical analysis.

| Cluster | Markers | Cluster size | | | P value | Post-hoc test | | |
|---------|--|--------------|---------------|--------------|----------|-------------------------|--------------------------|---------------------------------------|
| | | Control | MD15 | MD30 | | CTR vs MD ₁₅ | CTR vs MD ₁₈₀ | MD ₁₅ vs MD ₁₈₀ |
| 1 | CD3 ⁺ ; CD4 ⁺ ; CD25 ⁺ ; FoxP3 ⁺ | 1.95 +/-0.26 | 1.19 +/- 0.17 | 1.31 +/-0.18 | 1.34E-10 | 3.73E-10 | 1.86E-08 | 3.29E-01 |
| 2 | CD3 ⁺ ; CD4 ⁺ | 2.71 +/-1.02 | 0.85 +/-0.47 | 2.11 +/-1.11 | 6.79E-05 | 5.39E-05 | 2.55E-01 | 5.10E-03 |
| 3 | CD3 ⁺ ; CD4 ⁺ | 4.03 +/-1.01 | 2.56 +/-0.92 | 3.87 +/-1.25 | 3.23E-03 | 5.30E-03 | 9.31E-01 | 1.34E-02 |
| 4 | CD3 ⁺ ; CD4 ⁺ | 3.78 +/-0.80 | 2.69 +/-0.72 | 2.62 +/-0.84 | 1.27E-03 | 4.91E-03 | 2.82E-03 | 9.77E-01 |
| 5 | CD3 ⁺ ; CD4 ⁺ | 1.59 +/-0.77 | 1.31 +/-0.48 | 2.35 +/-1.08 | 1.06E-02 | 6.70E-01 | 7.41E-02 | 9.92E-03 |
| 6 | CD45RA ⁺ ; RT1B ⁺ | 1.01 +/-0.45 | 1.87 +/-0.81 | 1.61 +/-0.46 | 3.95E-03 | 3.44E-03 | 4.86E-02 | 5.40E-01 |
| 7 | CD45RA ⁺ ; RT1B ⁺ | 1.89 +/-0.79 | 2.21 +/-0.65 | 1.13 +/-0.28 | 4.39E-04 | 4.13E-01 | 1.25E-02 | 3.82E-04 |
| 8 | CD3 ⁺ ; CD8 ⁺ | 3.46 +/-0.65 | 3.28 +/-0.56 | 2.47 +/-0.71 | 1.30E-03 | 7.56E-01 | 1.65E-03 | 1.10E-02 |
| 9 | CD3 ⁺ ; CD4 ⁺ | 4.32 +/-0.37 | 2.22 +/-0.42 | 2.36 +/-0.37 | 2.48E-15 | 2.62E-14 | 1.73E-13 | 6.59E-01 |
| 10 | CD3 ⁺ ; CD4 ⁺ | 2.28 +/-0.35 | 2.31 +/-0.76 | 3.21 +/-0.66 | 8.32E-04 | 9.93E-01 | 2.18E-03 | 3.00E-03 |
| 11 | CD3 ⁺ ; CD4 ⁺ | 0.82 +/-0.22 | 2.31 +/-0.49 | 2.09 +/-0.82 | 3.26E-07 | 7.33E-07 | 1.27E-05 | 5.99E-01 |
| 12 | CD3 ⁺ ; CD4 ⁺ | ns | ns | ns | ns | ns | ns | ns |
| 13 | CD45RA ⁺ | 1.05 +/-0.40 | 2.11 +/-0.55 | 1.38 +/-0.62 | 8.57E-05 | 7.18E-05 | 3.01E-01 | 5.00E-03 |
| 14 | CD45RA ⁺ ; RT1B ⁺ | 1.39 +/-0.62 | 2.96 +/-1.01 | 1.61 +/-0.47 | 1.50E-05 | 3.05E-05 | 7.55E-01 | 2.47E-04 |
| 15 | CD3 ⁺ ; CD8 ⁺ | ns | ns | ns | ns | ns | ns | ns |
| 16 | CD3 ⁺ ; CD8 ⁺ | 1.85 +/-0.28 | 2.57 +/-0.72 | 2.46 +/-0.87 | 2.71E-02 | 3.31E-02 | 7.98E-02 | 9.16E-01 |
| 17 | RORγT ⁺ | ns | ns | ns | ns | ns | ns | ns |
| 18 | CD11b/c ⁺ | 0.86 +/-0.20 | 1.87 +/-0.39 | 2.20 +/-0.55 | 4.47E-09 | 1.70E-06 | 5.57E-09 | 1.25E-01 |
| 19 | CD11b/c ⁺ | 0.52 +/-0.30 | 1.96 +/-0.61 | 1.54 +/-0.55 | 1.92E-07 | 1.73E-07 | 6.70E-05 | 1.19E-01 |
| 20 | CD11b/c ⁺ | 0.61 +/-0.16 | 0.51 +/-0.20 | 1.24 +/-0.98 | 8.27E-03 | 9.10E-01 | 3.13E-02 | 1.15E-02 |
| 21 | CD45RA ⁺ ; RT1B ⁺ | 0.99 +/-0.25 | 2.35 +/-0.67 | 2.62 +/-0.68 | 7.25E-08 | 4.42E-06 | 1.55E-07 | 4.90E-01 |
| 22 | CD3 ⁺ ; CD8 ⁺ | 3.40 +/-1.16 | 1.69 +/-0.87 | 2.59 +/-1.05 | 1.29E-03 | 8.44E-04 | 1.52E-01 | 9.81E-02 |
| 23 | CD8 ⁺ ; | 0.81 +/-0.47 | 2.15 +/-1.21 | 1.76 +/-1.50 | 2.10E-02 | 1.89E-02 | 1.23E-01 | 6.75E-01 |
| 24 | CD11b/c ⁺ | ns | ns | ns | ns | ns | ns | ns |
| 25 | CD11b/c ⁺ | 1.37 +/-0.39 | 2.1 +/-0.61 | 1.67 +/-0.60 | 5.77E-03 | 4.30E-03 | 3.79E-01 | 1.05E-01 |
| 26 | CD11b/c ⁺ | 0.62 +/-0.48 | 1.43 +/-0.65 | 1.57 +/-0.48 | 2.68E-04 | 2.45E-03 | 4.49E-04 | 8.18E-01 |
| 27 | CD45RA ⁺ ; RT1B ⁺ | 1.00 +/-0.29 | 3.37 +/-0.68 | 2.26 +/-0.47 | 2.86E-12 | 1.33E-12 | 2.01E-06 | 1.79E-05 |
| 28 | CD45RA ⁺ ; RT1B ⁺ | 0.88 +/-0.19 | 2.24 +/-0.72 | 2.18 +/-0.54 | 2.34E-07 | 1.28E-06 | 2.85E-06 | 9.60E-01 |
| 29 | CD161a ⁺ | 0.96 +/-0.21 | 1.04 +/-0.24 | 1.25 +/-0.23 | 1.00E-02 | 6.92E-01 | 9.65E-03 | 6.71E-02 |
| 30 | CD8 ⁺ ; CD11b/c ⁺ | 2.55 +/-1.37 | 1.61 +/-1.04 | 1.27 +/-1.08 | 3.27E-02 | 1.40E-01 | 3.12E-02 | 7.61E-01 |
| 31 | CD11b/c ⁺ | ns | ns | ns | ns | ns | ns | ns |

