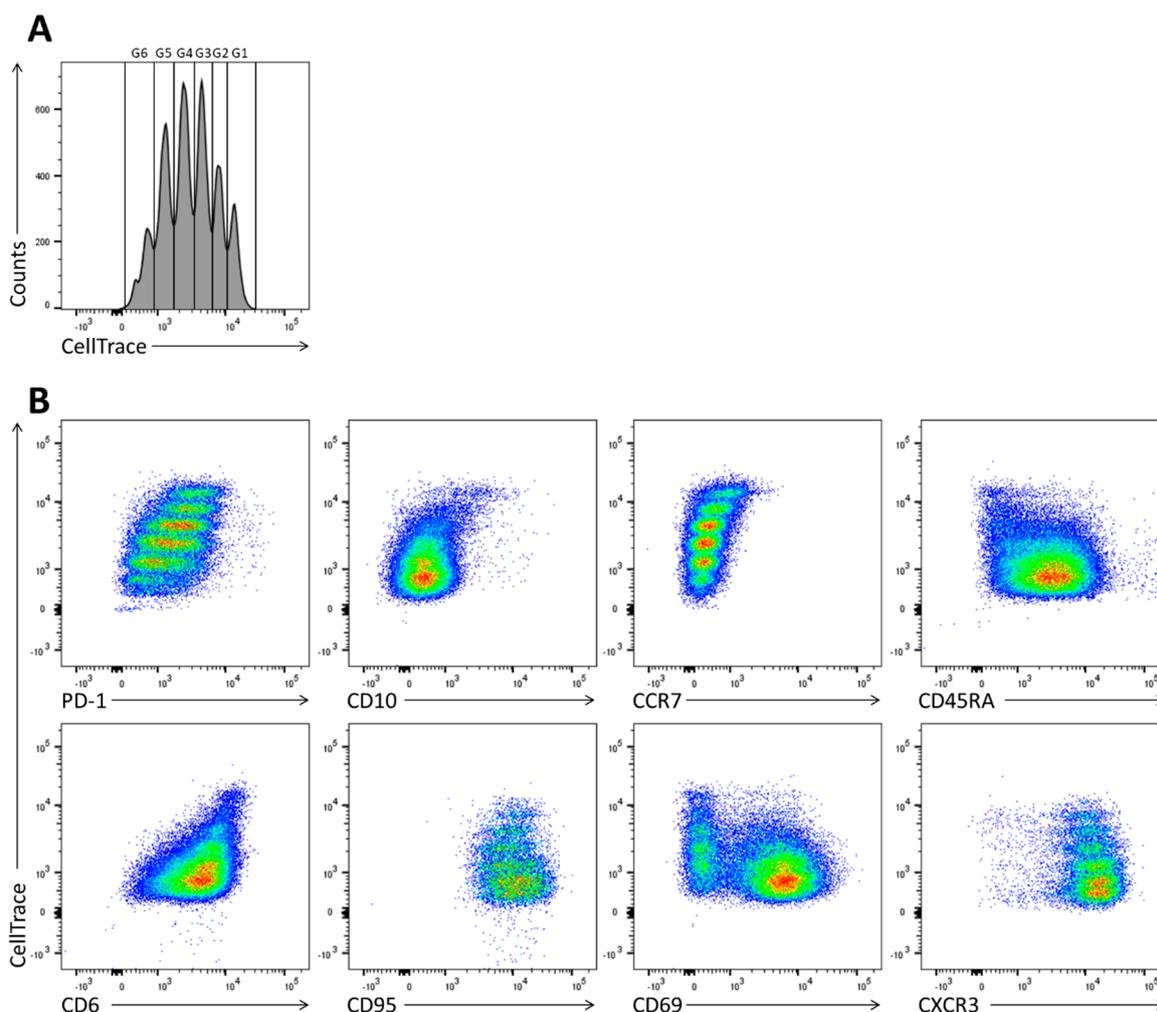


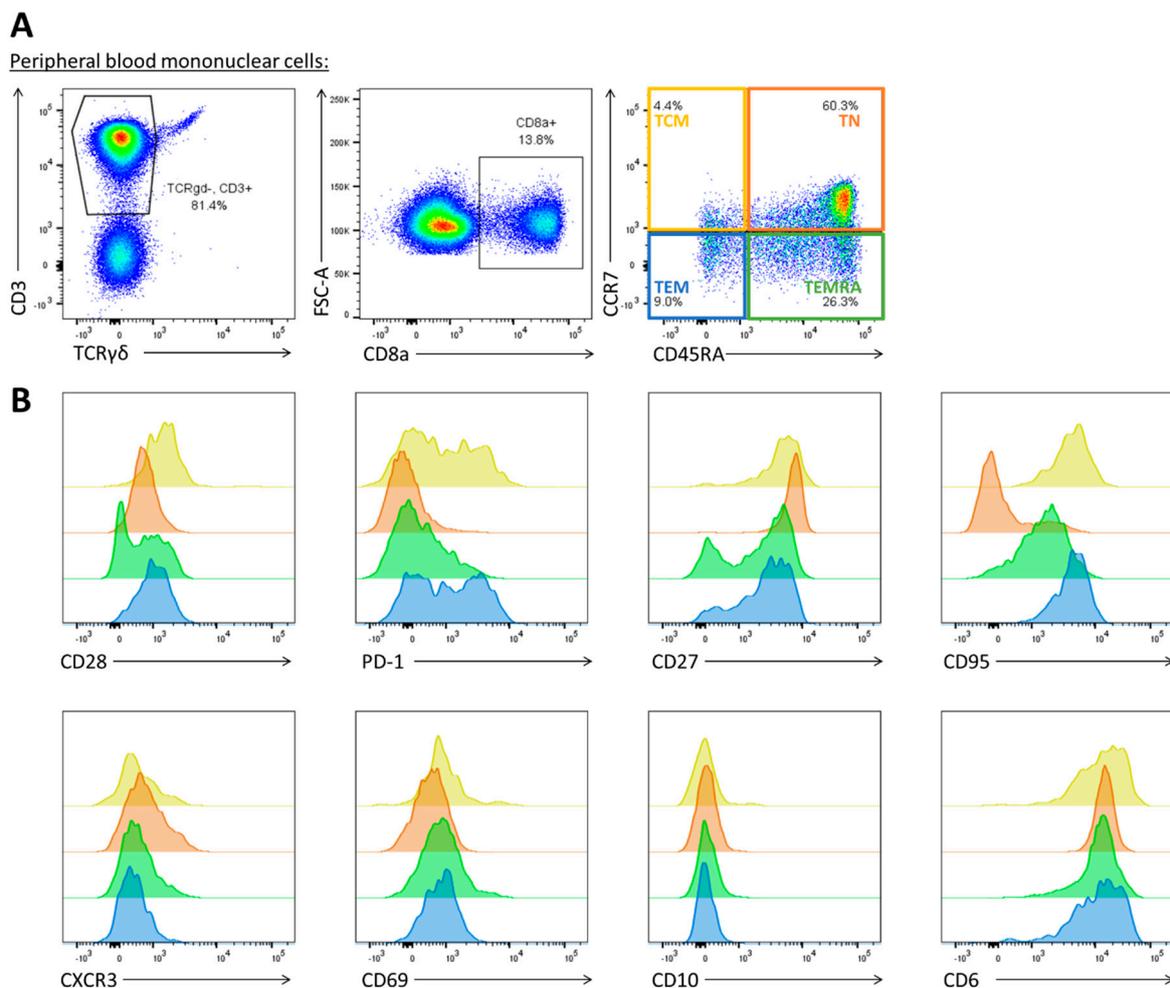
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2 **Supplementary Figure 1.** A total of 25×10^3 cells TCR $\gamma\delta^+$ cells, CD10 $^-$ PD-1 $^-$ cells and CD10 $^+$ PD-1 $^+$
3 cells (without taking into account CD1a expression) were cultured in the presence of IL-7 (10 ng/mL)
4 or IL-15 (10 ng/mL) and assayed for viable cell count at day 6 and day 10 (n = 1).



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6 **Supplementary Figure 2.** Flow cytometric analysis of the CD10 $^+$ PD-1 $^+$ IELp cells during proliferation
7 with IL-15. (A) Gating strategy for the six generations, indicating successive rounds of cell division.
8 Proliferation visualized by CellTrace Violet dye dilution from right to left. (B) Dot-plots of the
9 phenotypical markers presented in figure 2B.



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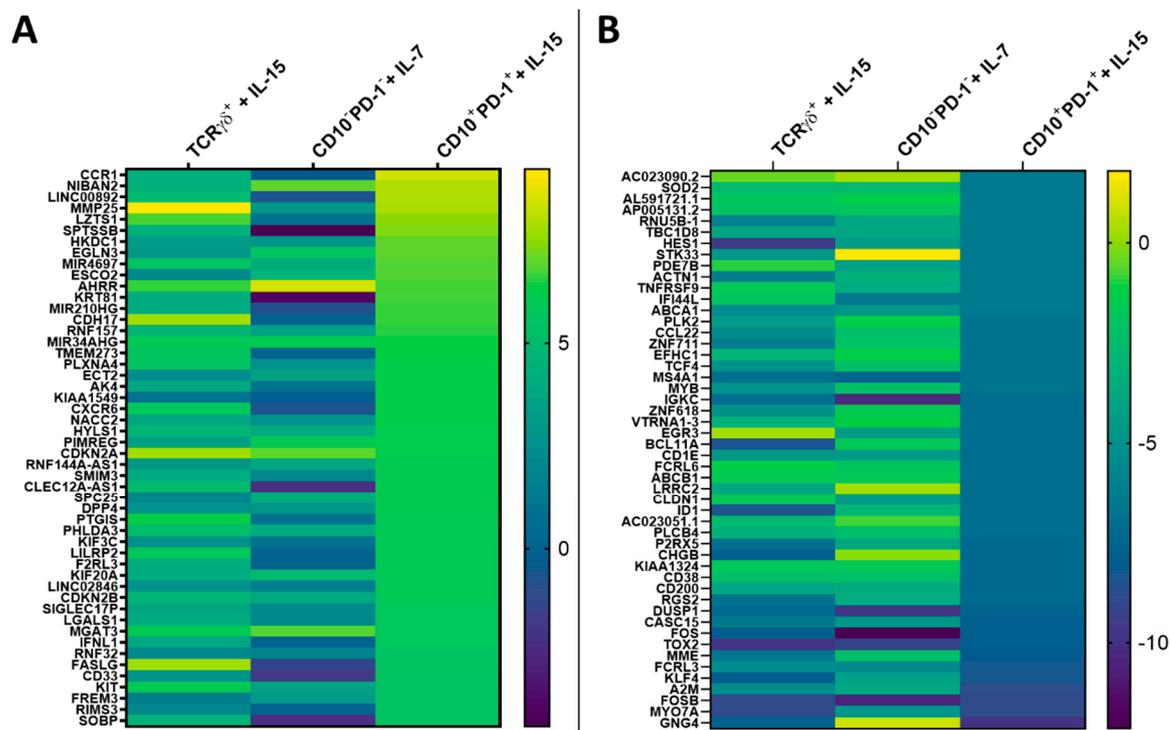
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Supplementary Figure 3. Phenotypic comparison of central memory (TCM), naive (TN), effector memory re-expressing CD45RA (TEMRA) and effector memory (TEM) T cells. **(A)** Gating strategy for CD45RA-CCR7⁺ TCM (yellow), CD45RA⁺CCR7⁺ TN (orange), CD45RA⁺CCR7⁻ TEMRA (green) and CD45RA⁻CCR7⁻ TEM (blue) from peripheral blood from healthy adult donors. **(B)** Histograms showing the expression of phenotypical markers in TCM (yellow), TN (orange), TEMRA (green) and TEM (blue). Representative of three biological replicates.



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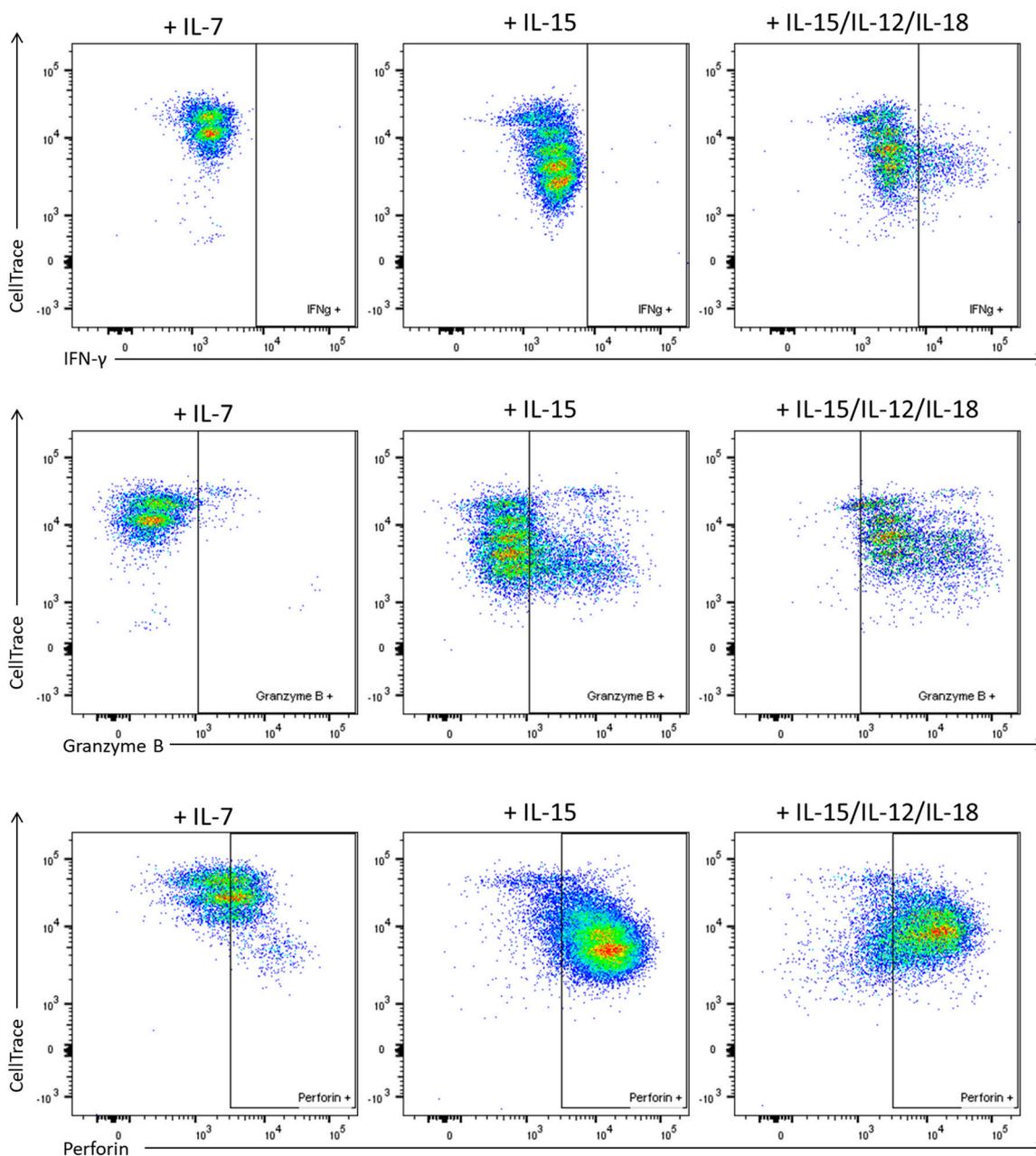
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Supplementary Figure 4. Heatmaps for log₂ fold change in expression in TCR $\gamma\delta^+$ cells incubated with IL-15, CD10 $^-$ PD-1 $^-$ cells with IL-7 and CD10 $^+$ PD-1 $^+$ cells with IL-15 for 11 days, compared to the same populations freshly isolated from human postnatal thymus at day 0, showing (A) the top 50 most upregulated genes in CD10 $^+$ PD-1 $^+$ cells after culture with IL-15 and (B) the top 50 most downregulated genes in CD10 $^+$ PD-1 $^+$ cells after culture with IL-15.

CD10⁺ PD-1⁺



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Supplementary Figure 5. Gating strategy used in figure 3B. Dot plots show the CD10⁺ PD-1⁺ population proliferated in the presence of different interleukins for five days.