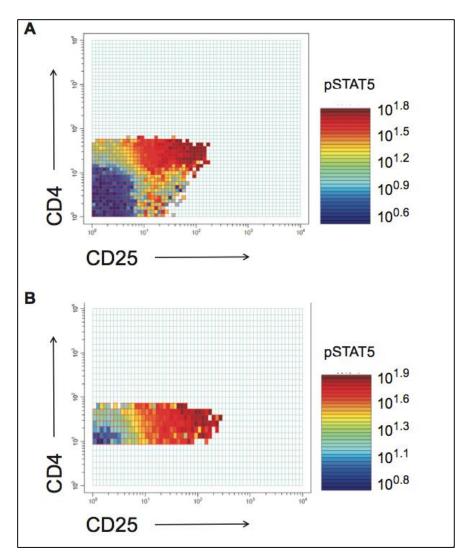
Additional file provided with this submission

Additional file 1: Table S1. Concentrations of remaining studied cell subsets in all three age groups of healthy subjects analysed by flow cytometry (*P < 0.05; **P < 0.01; ***P < 0.001; ****P < 0.0001).

	children ^A		adolescents ⁸		adults ^c	
	N	mean ± SD	N	mean ± SD	N	mean ± SD
Th (x10 ⁹ mL ⁻¹)	20	0.90 ± 0.63	20	0.61 ± 0.19	20	0.76 ± 0.20
Tc (x10 ⁹ mL ⁻¹)	20	0.57 ± 0.42	20	0.36 ± 0.16	20	0.42 ± 0.23
DNT (x109 mL-1)	20	0.15 ± 0.10	20	0.08 ± 0.04	20	0.05 ± 0.04 ^{AC} ***
HLA-DR (x10 ⁹ mL ⁻¹)	19	0.25 ± 0.32	20	0.17 ± 0.12	20	0.25 ± 0.14
Th1 (x10 ⁹ mL ⁻¹)	20	0.088 ± 0.054	20	0.100 ± 0.055	20	0.147 ± 0.052 ^{AC**,BC*}
Th2 (x10 ⁹ mL ⁻¹)	20	0.029 ± 0.034	20	0.022 ± 0.012	20	0.044 ± 0.028 ^{AC*,BC**}
Th1Th17 (x109 mL-1)	20	0.024 ± 0.013	20	0.055 ± 0.024 ^{AB***}	20	0.086 ± 0.049 ^{AC****}
Th17 CD161+ (x109 mL-1)	20	0.009 ± 0.007	20	0.007 ± 0.005	20	0.015 ± 0.007 ^{AC*,BC**}
Th17 CD161 ⁻ (x10 ⁹ mL ⁻¹)	20	0.016 ± 0.019	20	0.016 ± 0.009	20	0.028 ± 0.014 ^{AC***,BC*}
Th17 total (x109 mL-1)	20	0.025 ± 0.025	20	0.024 ± 0.012	20	0.042 ± 0.020 ^{AC***,BC**}
aTreg (x109 mL-1)	20	0.010 ± 0.006	20	0.012 ± 0.005	20	0.022 ± 0.009 ^{AC****,BC**}
rTreg (x109 mL-1)	20	0.044 ± 0.037	20	0.010 ± 0.005 ^{AB*}	20	0.007 ± 0.005 ^{AC****}
FoxP3+ non Treg (x109 mL-1)	20	0.024 ± 0.018	20	0.019 ± 0.009	20	0.024 ± 0.009
Treg total (x109 mL-1)	20	0.054 ± 0.040	20	0.022 ± 0.007	20	0.029 ± 0.011
Teff (x109 mL-1)	18	0.214 ± 0.127	19	0.243 ± 0.091	20	0.434 ± 0.148 ^{AC****} ,BC***
CD25-FoxP3+ (x10 ⁹ mL ⁻¹)	20	0.039 ± 0.034	20	0.006 ± 0.005 ^{AB****}	20	0.010 ± 0.010 ^{AC***}



Additional file 2: Figure S1. pSTAT5 after IL-2 stimulation in Th lymphocytes depends on levels of IL-2Ralpha. Whole blood samples were stimulated with IL-2, stained with anti-CD25 antibodies and prepared for the analysis of Th cell STAT5 signalling as described in materials and methods. Representative plots of gated lymphocytes (A) and CD4+ Th cells (B) from healthy donors are shown. The small boxes represent individual bins within the distribution of CD25 (IL-2Ralpha) and CD4. Within each bin, the geometric mean fluorescence intensity of the response channel (pSTAT5) was calculated for display using the ScatterSlice software: pSTAT5 for varying levels of IL-2Ralpha and CD4 as defined by the colour code shown on the right.