**Table S1:** Exemplary presentation of results of the statistical analysis.

P-value	Meaning	Statistical test	Exemplary statistical output
P	Correlation of T-cell subsets with age for healthy controls	**Linear Regression** (according to Pearson)	Fig 1A, x=age, y=RTE-Tregs of ICOS$^+$-Tregs $p < 0.0001$ (R -0.41, β -0.04, t (113) = 4.85)
P	Correlation of T-cell subsets with age for SLE patients in remission		Fig 1A, x=age, y=RTE-Tregs of ICOS$^+$-Tregs $p < 0.001$ (R -0.39, β -0.02, t (94) = 3.96)
P	Correlation of T-cell subsets with age for active SLE patients		Fig 1A, x=age, y=RTE-Tregs of ICOS$^+$-Tregs $P < 0.05$ (R -0.47, β -0.15, t (18) = 2.23)
P	Age independent differences between SLE patients in remission versus healthy controls	**Multiple Regression** (adjusted for age, centered on the mean)	Fig 1A, x=age, y=RTE-Tregs of ICOS$^+$-Tregs ↓$P < 0.0001$ (R=0.47, β -0.64, f^2 = 0.29)
P	Age independent differences between active SLE patients versus healthy controls		Fig 1A, x=age, y=RTE-Tregs of ICOS$^+$-Tregs ↑$P < 0.001$ (R=0.52, β 1.06, f^2 = 0.38)
Δp	Differences in the slope of the regression lines between T-cell subsets of SLE patients in remission and healthy controls	**Comparison of regression lines**	Fig 3C, x= Ki67$^+$-cells of ICOS$^+$-RTE-Tresps, y= RTE-Tresps of ICOS$^+$-CD45RA$^+$-Tresps (%) Δp < 0.01
Δp	Differences in the slope of the regression lines between T-cell subsets of active SLE patients and healthy controls		Fig 2C, x= Ki67$^+$-cells of ICOS$^+$-RTE-Tregs, y= RTE-Tregs of ICOS$^+$-CD45RA$^+$-Tregs (%) Δp < 0.0001
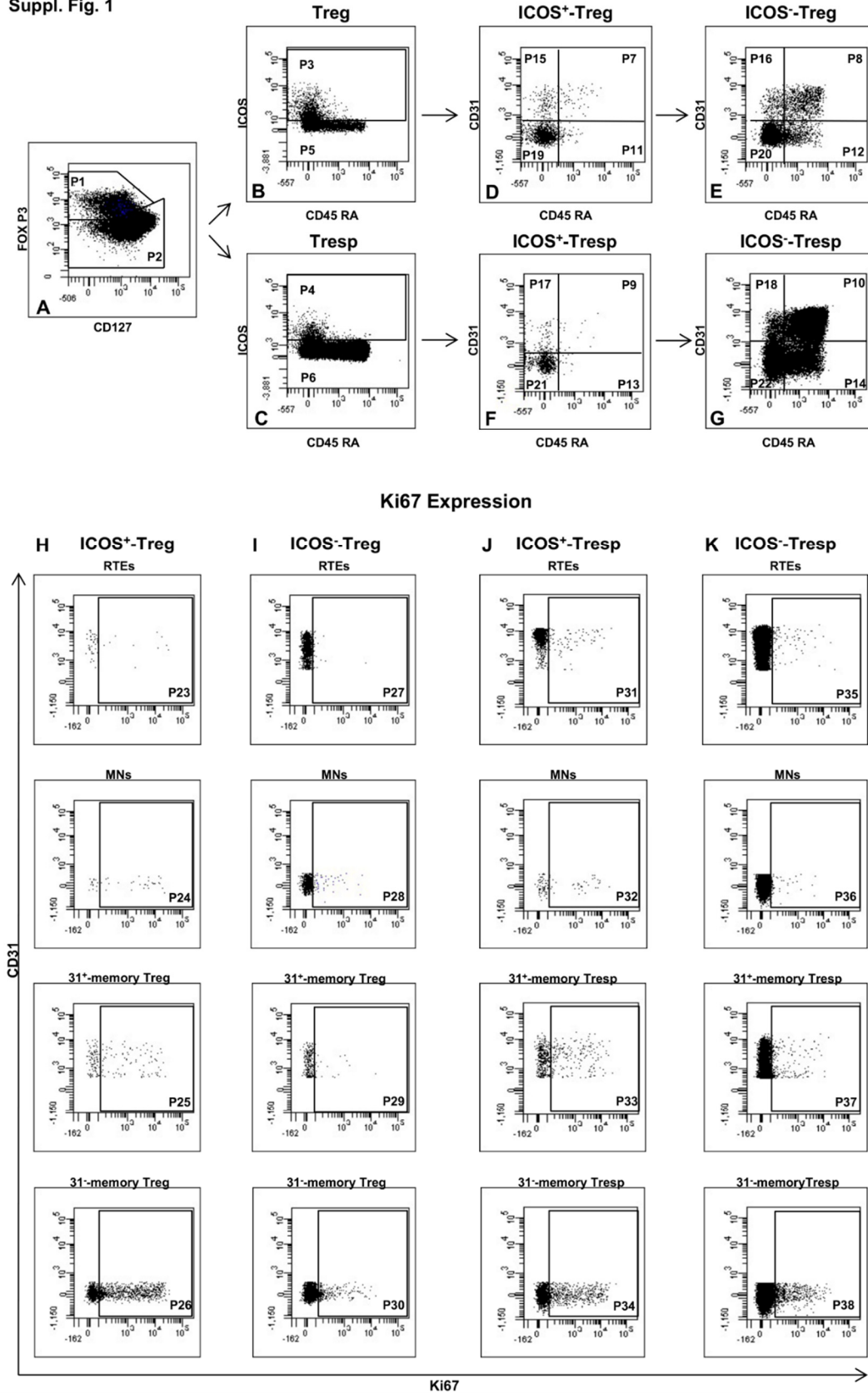
Scheme S1. Gating Strategy. Positively isolated CD4+-T-helper cells were divided into CD4+CD127low+/-FoxP3+-Tregs (P1) and CD4+CD127+FoxP3--Tresps (P2) by gating fluorescence intensity of FoxP3 versus CD127 (A). ICOS+-Tregs/Tresps (P3, P4) and ICOS--Tregs/Tresps (P5, P6) were gated by fluorescence activity of ICOS versus CD45RA (B and C). The percentages of ICOS+- and ICOS--RTE-Tregs/Tresps (P7, P8, P9, P10), MN-Tregs/Tresps (P11, P12, P13, P14), CD31+-memory Tregs/Tresps

(P15, P16, P 17, P18) and CD31⁻-memory Tregs/Tresps (P19, P20, P21, P22) were estimated by analyzing ICOS⁺-Tregs (P3), (D), ICOS⁻-Tregs (P5), (E), ICOS⁺-Tresps (P4), (F) and ICOS⁻-Tresps (P6), (G) for its fluorescence intensity of CD31 versus CD45RA. The Ki67 expression of ICOS⁺- or ICOS⁻-RTE, MN, CD31⁺-memory-Tregs and CD31⁻-memory-Tregs (P23-P26 and P27-P30), as well as Ki67 expression of ICOS⁺- or ICOS⁻-RTE, MN, CD31⁺-memory-Tresps and CD31⁻-memory-Tresps (P31-P34 and P35-P38) were estimated by analyzing the fluorescence intensity of CD31 versus Ki67 (H-K).