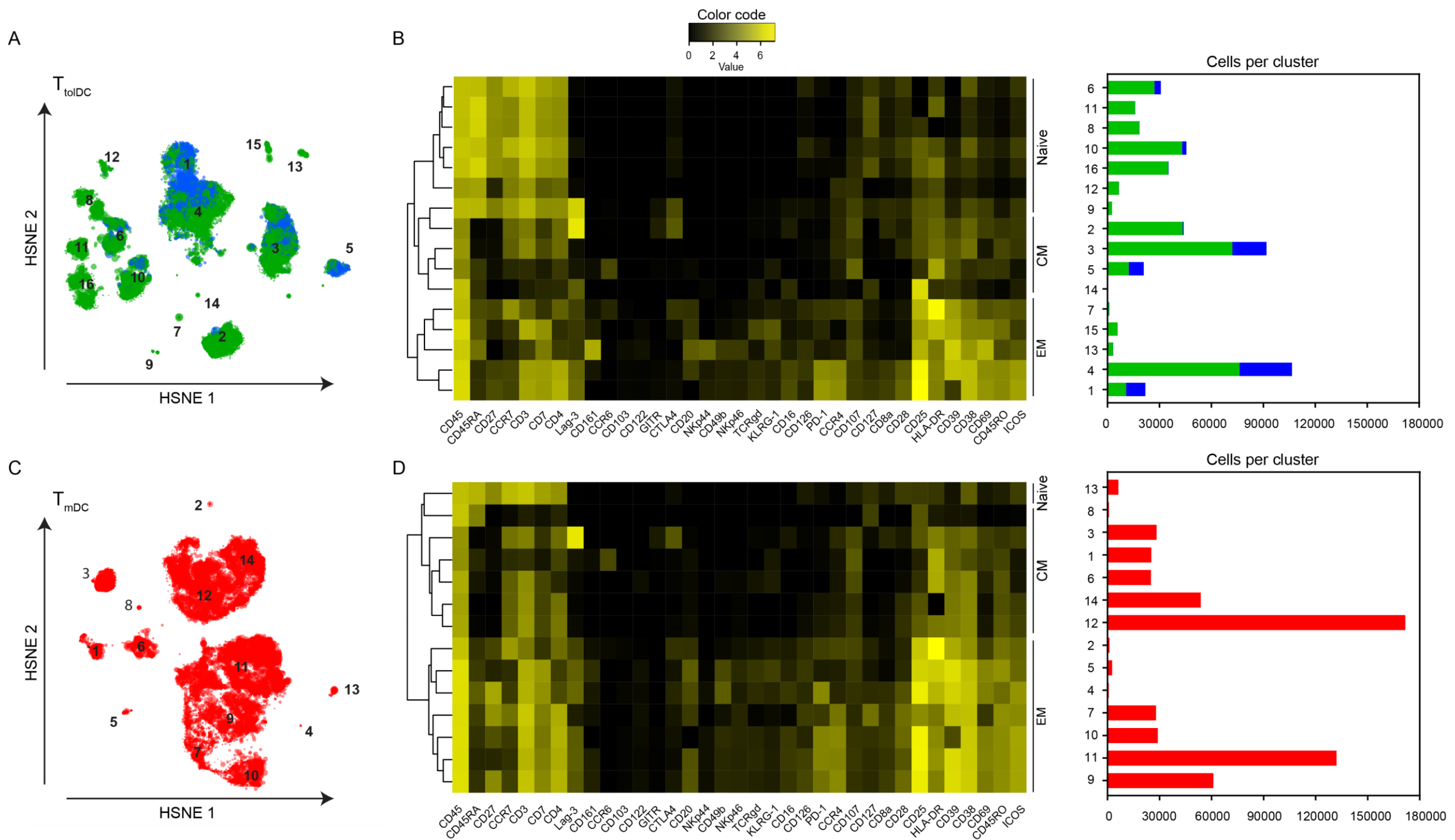**Supplementary figure 1. Marker expression of SPADE tree.** The expression of CD45RA, CD45RO, CD25, CD161, Lag-3, CTLA-4, GITR and CCR6 visualised in a representative T_{tolDC} (line #4).

Supplementary figure 2. Individual marker expression signatures of T$_{tolDC}$ and T$_{mDC}$. To visualise the independent clustering of T$_{tolDC}$ and T$_{mDC}$ cells, lines were analysed separately in an HSNE. **A)** and **C)** HSNE embedding of T$_{tolDC}$ (A) or T$_{mDC}$ (C) lines (green: cells from suppressive T$_{tolDC}$, blue: cells from non-suppressive T$_{tolDC}$, red: cells from T$_{mDC}$ lines. The numbers label corresponding clusters depicted in B and D. **B)** and **D)** Heatmap and abundancy histogram of T$_{tolDC}$ (B) and T$_{mDC}$ lines (D) and cluster numbers. Statistics of the abundancy histogram are shown in Supplementary table 1.

Supplementary Table 1. Statistics of abundancy histograms.

A Statistics figure 4

Cluster	T_{mDC}	T_{tolDC}	Non-suppressive T_{tolDC}
1	358	3013	115
A2	1575	3831	5
C3	780	597	115
C2	16030	778	174
C6	29972	12603	11792
C1	203439	73613	29316
B4	20836	2450	78
B6	2171	1338	204
B3	5007	1359	1550
B5	21164	11979	7294
B1	122366	33598	4825
B2	32206	5363	1455
B7	75850	32279	13260
C5	4927	10402	85
C4	22308	32080	394
A3	95	2230	7
A4	354	6896	71
A5	306	17673	59
A7	2967	45246	4420
A6	2938	76109	2016

B Statistics supplementary figure 2

Cluster	T_{tolDC}	Non-suppressive T_{tolDC}
6	27152	3682
11	15942	83
8	18341	142
10	43113	2456
16	35120	120
12	6544	117
9	2602	10
2	43435	543
3	72146	19711
5	12280	8659
14	352	12
7	890	153
15	5838	27
13	3144	124
4	76346	30243
1	10755	11170

Cluster	T_{mDC}
13	6340
8	826
3	28303
1	25231
6	25066
14	53813
12	171711
2	1153
5	2736
4	719
7	27997
10	29040
11	132026
9	61033