

Supplementary Table 1 List of primers

Gapdh, *Il4*, *Il17a*, *Il18*, *Ifng*, *Nos2*, *Tnfa*, *Tbet*, *Rorgt*, *Gata3* and *Cela3b* primer sets were described previously (Ref. 46). Other primer sets used in this study are listed below:

Il10: Forward-5' - AGCCTTATCGGAAATGATCCAGT -3'
Il10: Reverse-5' - GGCCTTGTAGACACCTTGGT -3'

Il12p35: Forward-5' - AAGACATCACACGGGACCAAA -3'
Il12p35: Reverse-5' - CAGGCAACTCTCGTTCTTGTGTA -3'

Il22: Forward-5' - AGAAGGCTGAAGGAGACAGT -3'
Il22: Reverse-5' - GACATAAACAGCAGGTCCAGTT -3'

Il23: Forward-5' - ACCTCACCACTCATTTCCCC -3'
Il23: Reverse-5' - CGACTTCTAAGCGGCTTCCT -3'

Il27p28: Forward-5' - TTCCCAATGTTTCCCTGACTTT -3'
Il27p28: Reverse-5' - AAGTGTGGTAGCGAGGAAGCA -3'

Il27ebi3: Forward-5' - TGAAACAGCTCTCGTGGCTCTA -3'
Il27ebi3: Reverse-5' - GCCACGGGATACCGAGAA -3'

Csf2: Forward-5' - AAGGTCCTGAGGAGGATGTG -3'
Csf2: Reverse-5' - GAGGTCAGGGCTTCTTTGA -3'

Mif4gd: Forward-5' - CCTGTCTATGACTGTCTCTTCC -3'
Mif4gd: Reverse-5' - GCCCGTTCATCTTCTCCAG -3'

Tgfb: Forward-5' - TGACGTCACTGGAGTTGTACGG -3'
Tgfb: Reverse-5' - GGTTTCATGTCATGGATGGTGC -3'

Mmp9: Forward-5' - TGAGTCCGGCAGACAATCCT -3'
Mmp9: Reverse-5' - TCTTGGTCTGCGGATCCTCA -3'

Mmp12: Forward-5' - CATGAAGCGTGAGGATGTAG -3'
Mmp12: Reverse-5' - TAGTTGAAGTCTCCGTGAGC -3'

Arg1: Forward-5' - GCTTTTGTGGGTCCAACACC -3'
Arg1: Reverse-5' - TTCCCCAGGTTGCAAAGTT -3'

Cd39: Forward-5' - TGGGTTAGAGTTTAGAGGCAGG -3'
Cd39: Reverse-5' - CTGCTGCAGGTCGGAGAAAT -3'

Cd274: Forward-5'- CGCCCTTTTTATTTAATGTATGGA -3'
Cd274: Reverse-5'- AAGTGAGGCGTCTGTGTTTGAG -3'

Eomes: Forward-5'- GGAAGTGACAGAGGACGGTG -3'
Eomes: Reverse-5'- GCCGTGTACATGGAATCGTAG -3'

Ahr: Forward-5'- CCCACATCCGCATGATTAAGAC -3'
Ahr: Reverse-5'- CCTTCTTCATCCGTCAGTGGTC -3'

Dec1: Forward-5'- CGTTGAAGCACGTGAAAGCA -3'
Dec1: Reverse-5'- GAGACACTAATCAGGCCGGG -3'

Foxp3: Forward-5'- CCATCCCCAGGAGTCTTG -3'
Foxp3: Reverse-5'- ACCATGACTAGGGGCACTGTA -3'

Ccl2: Forward-5'- TAAAAACCTGGATCGGAACCAA -3'
Ccl2: Reverse-5'- GCATTAGCTTCAGATTTACGGGT -3'

Ccr2: Forward-5'- CACTCCTTAACCTCAGCGGG -3'
Ccr2: Reverse-5'- TGCACACCCACAACCTGTCTT -3'

Hdac1: Forward-5'- CTGGGTTGTGTTTCTGTTGG -3'
Hdac1: Reverse-5'- AAGTGGTGTAAGCCTGGAGT -3'

Hdac2: Forward-5'- GGAACCTCGAAAAGTGAGAC -3'
Hdac2: Reverse-5'- CAGCTCAGAAAGGCCAATTGT-3'

Hdac3: Forward-5'- AACCTGCATATTGGTGGGG -3'
Hdac3: Reverse-5'- TTCCCTTTTGTGCCACTCC -3'

Hdac4: Forward-5'- ACTTTGTCAGCCTGTGAGTTTG -3'
Hdac4: Reverse-5'- TGTGAGCTACAAGCTGTGCC -3'

Hdac5: Forward-5'- AGTGAGAGCACCCAGGAAGA -3'
Hdac5: Reverse-5'- GTACACCTGGAGGGGCTGTA -3'

Hdac6: Forward-5'- TGAGTCACTGCAACCTCTGG -3'
Hdac6: Reverse-5'- GTGGCAGGTAAGGAGCTCAG -3'

Hdac7: Forward-5'- TTTCTACCAGGACCCAGTG -3'
Hdac7: Reverse-5'- AAGCAGCCAGGTACTCAGGA -3'

Hdac8: Forward-5'- AGCCTGTTTCACCAGAACTCC -3'
Hdac8: Reverse-5'- TGTGCAGTAAGGGTAGGGGA -3'

Hdac9: Forward-5' - CGCGTAGGCAGACATGTAGA -3'
Hdac9: Reverse-5' - ACCTGTCCAACAAGGCAAAC -3'

Hdac10: Forward-5' - CCAGACCCCTTACTGGACAA -3'
Hdac10: Reverse-5' - CCAGGAGGTAAGCACAGAGC -3'

Hdac11: Forward-5' - TGAAAACACGTTTGGGATGA -3'
Hdac11: Reverse-5' - GTGGGGCCACTGTACCTAGA -3'

The primer sets were designed, and specificity validated using Primer3 and BLAST on NCBI database (ncbi.nlm.nih.gov), and BiSearch Web Server tool (bisearch.enzim.hu). The melting temperature of the PCR amplicons was monitored and the PCR products were assessed on low-melt agarose gel for the expected size.

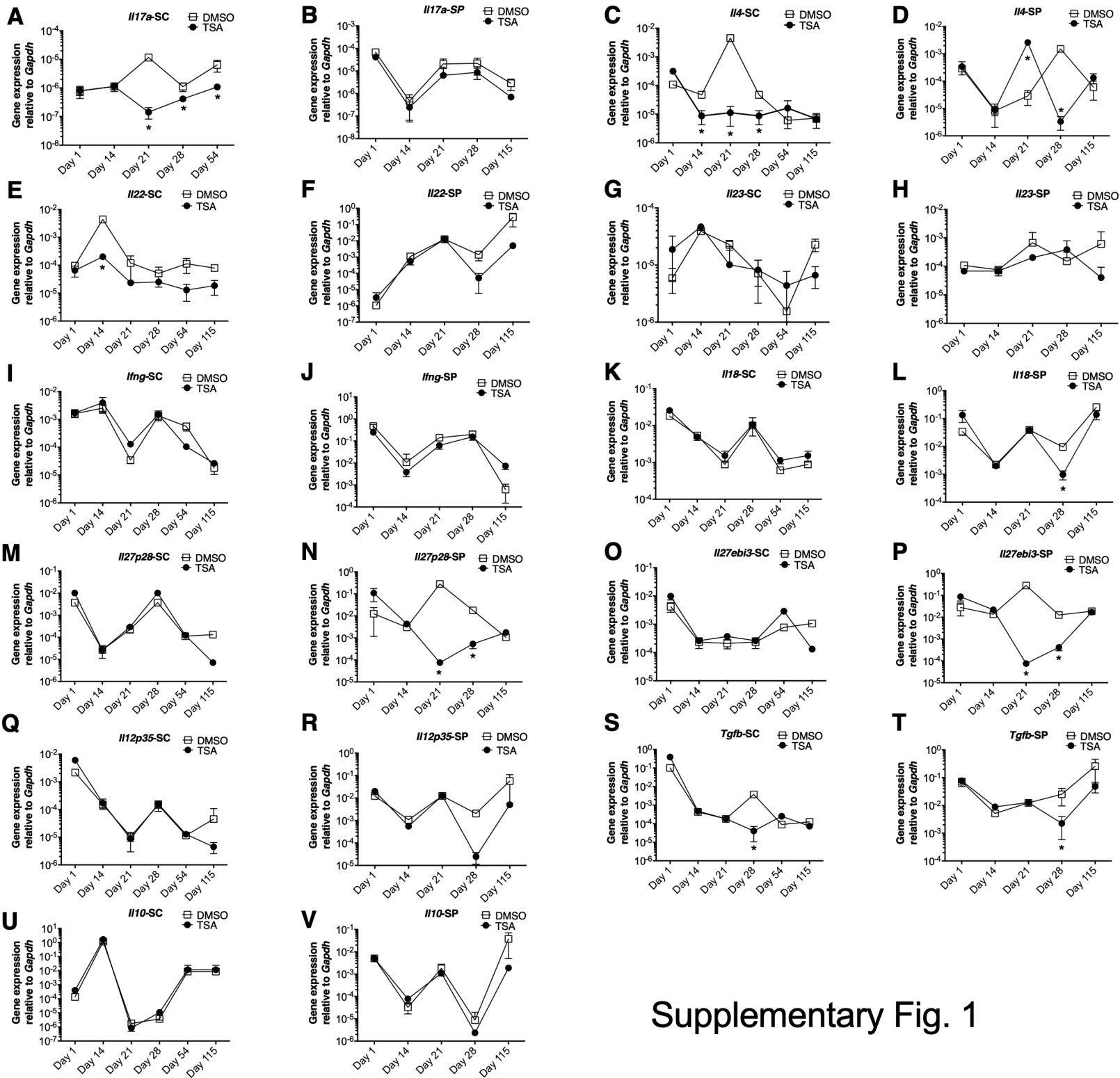
Legends to Supplementary Figures

Supplementary Figure 1 Differential modulation of lymphokine genes by TSA treatment. NOD mice were immunized and treated with DMSO or TSA and sacrificed at indicated time points. The SC and draining spleen + lymph nodes (SP) were analyzed. Mean \pm SE of triplicate determinants for five mice/group is shown. Statistical significance ($P < 0.05$) determined using a two-tailed paired t-test is indicated by asterisks.

Supplementary Figure 2 Differential modulation of genes encoding cytokines by TSA treatment. NOD mice were immunized and treated with TSA or DMSO and sacrificed at indicated time points. Gene expression was analyzed in the SC and spleen + draining lymph nodes (SP). Mean \pm SE of triplicate determinants for five mice/group is shown. Statistical significance ($P < 0.05$) determined using a two-tailed paired t-test is indicated by asterisks.

Supplementary Figure 3 Differential modulation of accessory cell-associated genes by TSA treatment. NOD mice were immunized and treated with TSA or DMSO and sacrificed at indicated time points. Gene expression was analyzed in the SC and spleen + draining lymph nodes (SP). Mean \pm SE of triplicate determinants for five mice/group is shown. Statistical significance ($P < 0.05$) determined using a two-tailed paired t-test is indicated by asterisks.

Supplementary Figure 4 Differential modulation of genes encoding transcription factors by TSA treatment. NOD mice were immunized and treated with TSA or DMSO and sacrificed at indicated time points. Gene expression was analyzed in the spinal cord SC and spleen + draining lymph nodes (SP). Mean \pm SE of triplicate determinants for five mice/group is shown. Statistical significance ($P < 0.05$) determined using a two-tailed paired t-test is indicated by asterisks.



Supplementary Fig. 1

Supplementary Figure 5 Differential modulation of genes encoding HDACs in lymphoid cells by TSA treatment. NOD mice were immunized and treated with TSA or DMSO and sacrificed at indicated time points. Gene expression was analyzed in the spleen + draining lymph nodes (SP). Mean \pm SE of triplicate determinants for five mice/group is shown. Statistical significance ($P < 0.05$) determined using a two-tailed paired t-test is indicated by asterisks.