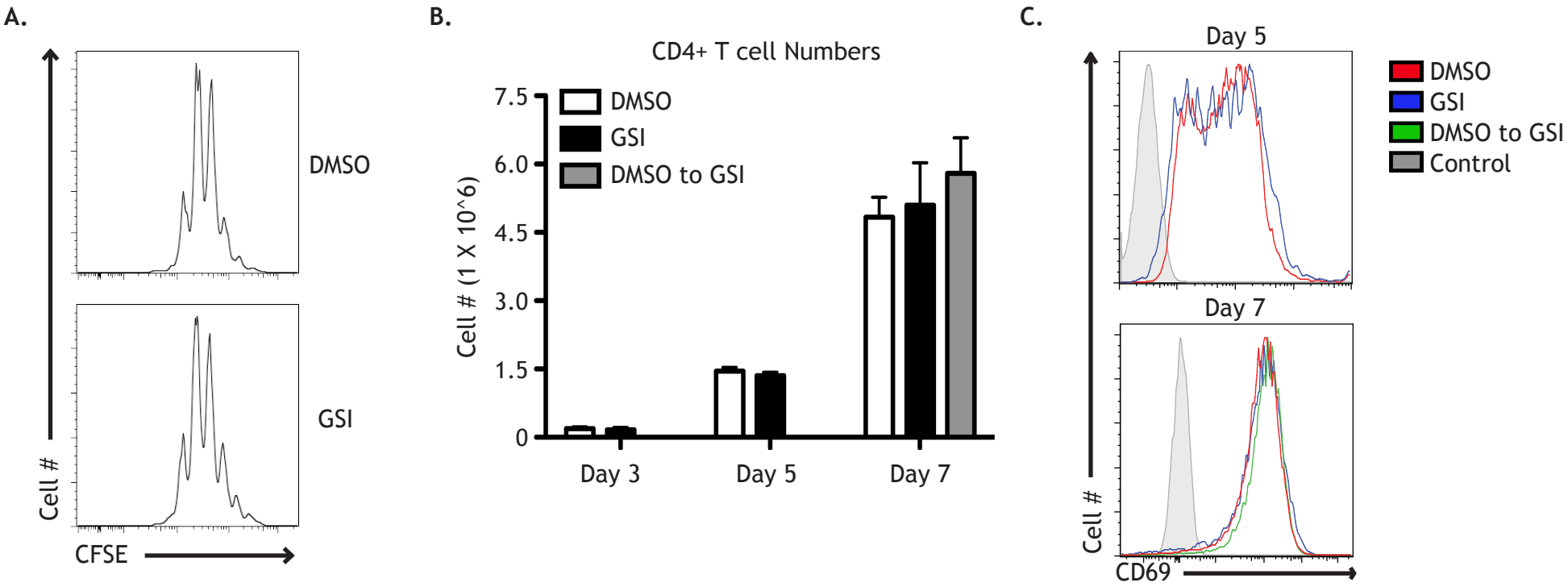
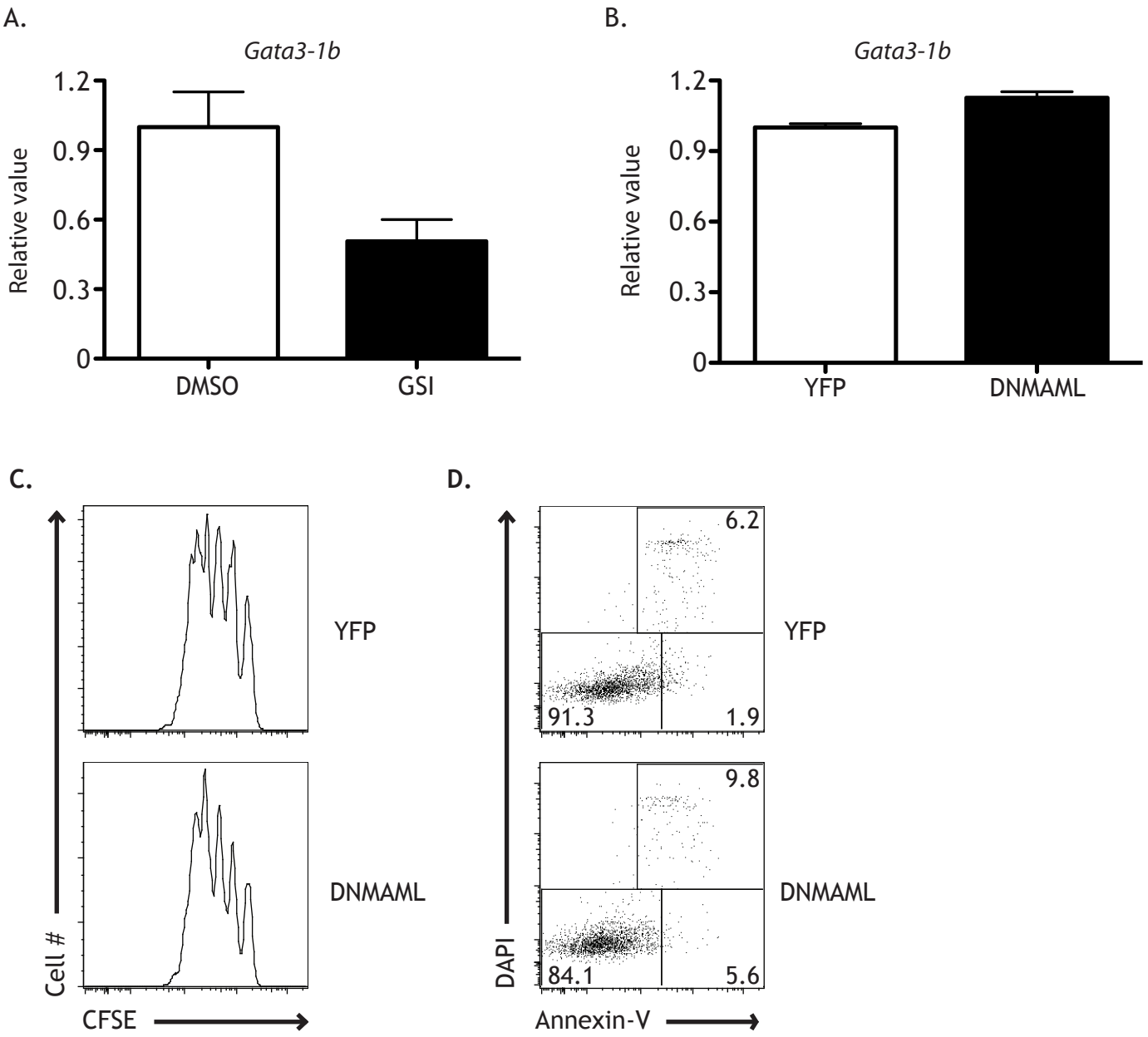
Figure S1. WT naive $CD4^+$ T cells were CFSE labeled and then stimulated with irradiated splenocytes (1:5), anti-CD3e (1 μg/mL), and anti-CD-28 (1 μg/mL), cultured in media containing 5 ng/mL IL-2, 20 μg/mL anti-IL-4, and 20 μg/mL anti-IFNγ and treated with either DMSO or 1 μM GSI. On day 5, cells were washed, restimulated, and cells previously cultured in DMSO were either replated in DMSO or 1 μM GSI, while cells previously cultured in GSI were maintained in GSI. (A) FACS analysis of cell proliferation on day 3 post-activation. (B) Cell numbers on days 3, 5, and 7 post-activation. (C) FACS analysis of CD69 expression on cells days 5 and 7 post-activation. Data are represented as mean +/- SEM. Related to Figure 2.

Figure S2. (A) WT naive $CD4^+$ T cells were CFSE labeled and then stimulated with irradiated splenocytes (1:5), anti-CD3e (1 μg/mL), and anti-CD-28 (1 μg/mL), cultured in media containing 5 ng/mL IL-2, 20 μg/mL anti-IL-4, and 20 μg/mL anti-IFNγ and treated with either DMSO or 1 μM GSI. RNA was harvested on day 5 post-activation and analyzed by qPCR. (B) $YFP^{fl/fl}$ or $DNMAML^{fl/fl}$ $CD4^+$ T cells were Tat-cre treated and rested for 24 hours in media containing 100 ng/mL IL-7. Naive $CD4^+$ T cells were then FACS sorted and stimulated with irradiated splenocytes (1:5), anti-CD3e (1 μg/mL), and anti-CD-28 (1 μg/mL), and cultured in media containing 5 ng/mL IL-2, 20 μg/mL anti-IL-4, and 20 μg/mL anti-IFNg. After 5 days, RNA was harvested and analyzed by qPCR. (C) $YFP^{FL/FL}$ or $DNMAML^{FL/FL}$ $CD4^+$ T cells were Tat-cre treated and rested for 24 hours in media containing 100 ng/mL IL-7. Naive $CD4^+$ T cells were then FACS sorted, labeled with CFSE, and stimulated as above under neutral conditions. After 3 days, cell proliferation was measured by FACS. (D) FACS sorted, Tat-cre treated, naïve $CD4^+$ T cells from either $YFP^{FL/FL}$ or $DNMAML^{FL/FL}$ mice were stimulated as above under neutral conditions. Apoptosis and cell death were measured on day 5 by FACS using Annexin-V and DAPI staining. Data are represented as mean +/- SEM. Related to Figure 3.

Table S1. List of qPCR primers used. Related to Figures 3 and 4.

Table S2. List of ChIP qPCR primers used. Related to Figures 3 and 4.


A.
DMSO
GSI
Cell #
CFSE
B.
CD4+ T cell Numbers
DMSO
GSI
DMSO to GSI
Cell # (1 X 10^6)
7.5
6.0
4.5
3.0
1.5
0
Day 3
Day 5
Day 7
C.
Day 5
Day 7
DMSO
GSI
DMSO to GSI
Control
Cell #
CD69


A.
Gata3-1b
Relative value
1.2
0.9
0.6
0.3
0
DMSO
GSI
B.
Gata3-1b
Relative value
1.2
0.9
0.6
0.3
0
YFP
DNMAML
C.
YFP
DNMAML
Cell #
CFSE
D.
6.2
YFP
91.3
1.9
9.8
DNMAML
84.1
5.6
DAPI
Annexin-V

Suplementary Table 1: Quantitative PCR primer sequences

Il4	5′-CATGGAGCTGCAGAGACTCTTTC-3′
	5′-TCCAGGAAGTCTTTCAGTGATGTG-3′
Ifng	5′-CACGGCACAGTCATTGAAAG-3′
	5′-GCTGATGGCCTGATTGTCTT-3′
Gata3 exon 1a	5′-CTGGCTGAGATGCAGTGAAG-3′
	5′-GCTCAGAGACGGTTGCTCTT-3′
Gata3 exon 1b	5′-AGCTGTCTGCGAACACTGAG-3′,
	5′-GCTCAGAGACGGTTGCTCTT-3′
Tbx21	5′-TCAACCAGCACCAGACAGAGA-3′
	5′-CCACATCCACAAACATCCTGTAAT-3′
Rorc	5′-CCGCTGAGAGGGCTTCAC-3′
	5′-TGCAGGAGTAGGCCACATTACA-3′
Il17a	5′-TCCACGTCACCCTGGACTCT-3′
	5′-CATGTGGTGGTCCAGCTTTC-3′

Suplementary Table 2: ChIP primer sequences

Il4 HS-V	5′-TTGAAGTAGCCCTCCTCACGATCA-3′
	5′-AGCCTCCAGACAAATTGGTGAGTG-3′
Ifng CNS-22	5′-CAGGAAGGAGATGGGAAGTCA-3′
	5′-CTGTCTTTTGACAATGAGCAGAAAT-3′
Gata3 exon 1a	5′-TTCCACAGGGCAGTGTCATT-3′
	5′-CACACAAACCGCACATCAGA-3′
Tbx21	5′-AGTCAGCCCTGGGACTCTGA-3′
	5′-TTGGAAGCTGTCTCCCAAGAA-3′
Nanog	5'-GGCTGCCTCTCCTCGCCCT-3'
	5'-GTGCACACAGCTGGGCCTGA-3'