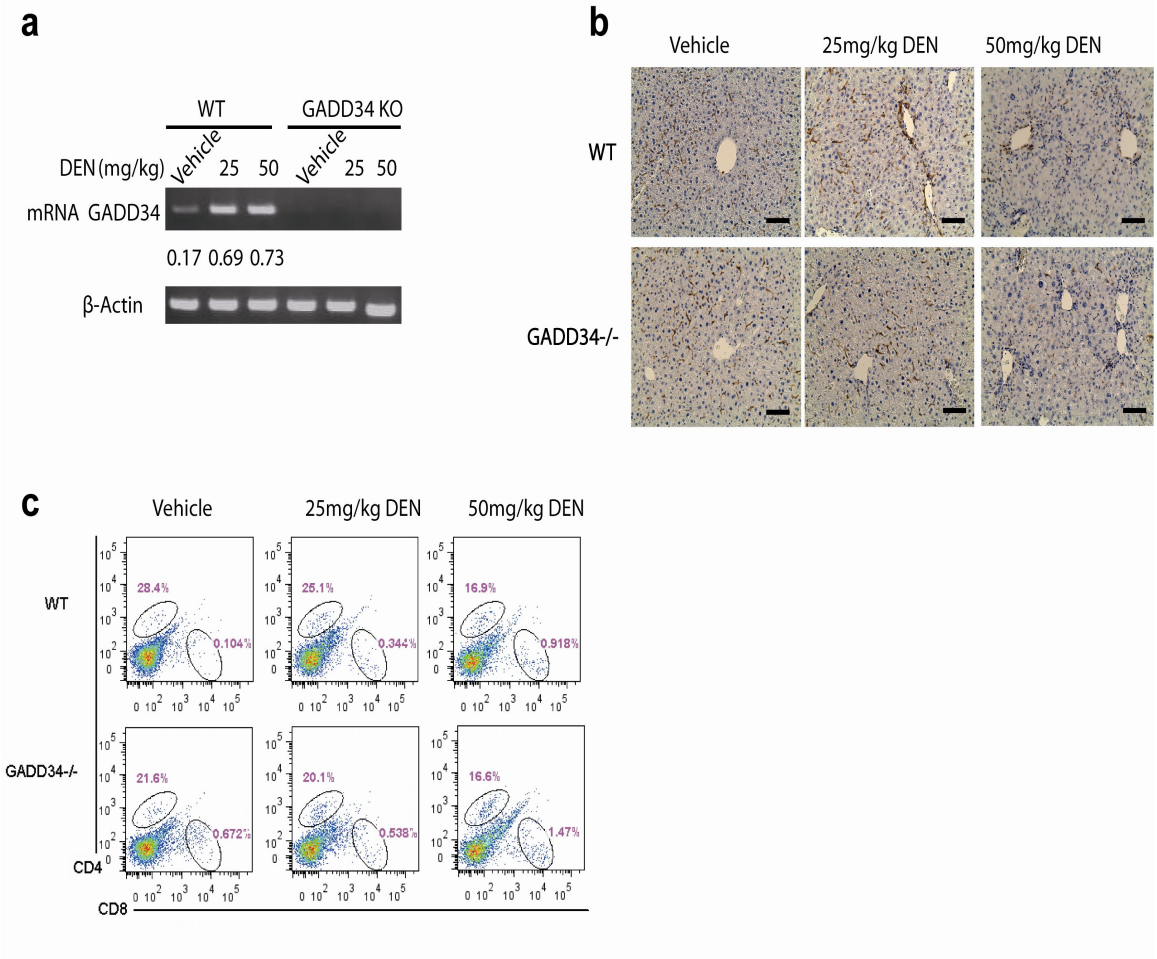
**Supplementary Table 1** The sequences of primer sets were used in this study for PCR and Real-Time PCR analysis.

| genes | sequences (Forward ; 5'-3') | sequences (Reverse ; 5'-3') |
|---|---|---|
| GADD34 | cttttggcaaccagaaccg | cagagccgcagcttctatct |
| IL-6 | CCGGAGAGGAGACTTCACAG | TCCACGATTTCCCAGAGAAC |
| IL-1β | GCCCATCCTCTGTGACTCAT | AAGGCCACAGGTATTTTGTCG |
| MMP9 | GAAGGCAAACCCTGTGTGTT | AGAGTACTGCTTGCCCAGGA |
| TNF-α | GCCCATATACCTGGGAGGAG | CACCCATTCCCTTCACAGAG |
| CCR2 | AGAGAGCTGCAGCAAAAAGG | GGAAAGAGGCAGTTGCAAAG |
| MCP1 | TGAATGTGAAGTTGACCCGT | AAGGCATCACAGTCCGAGTC |
| P53 | agagaccgccgtacagaaga | ctgtagcatgggcatccttt |
| c-Myc | CTGTCCATTCAAGCAGACGA | TCCAGCTCCTCCTCGAGTTA |
| β-actin | AGTGTGACGTTGACATCCGT | GCAGCTCAGTAACAGTCCGC |




**Supplementary Fig. 1** The effects of GADD34 in livers upon chronic DEN treatment. **a** Representative result of GADD34 and β-actin mRNA levels analyzed by RT-PCR using liver sample from WT and GADD34-/- mice after chronic DEN treatment. **b** IHC study of infiltrated Kupffer cells/macrophages in liver sections from WT and GADD34-/- mice by staining with anti-F4/80 after chronic DEN treatment. Scale bars, 100μm. **c** Representative result of flow cytometric analyses of $CD4^+$ and $CD8^+$ positive cells in liver samples from WT and GADD34-/- mice after chronic DEN treatment. Single cell suspensions were stained and analyzed for the indicated surface markers as the circle indicates. n = 3 for each group.