

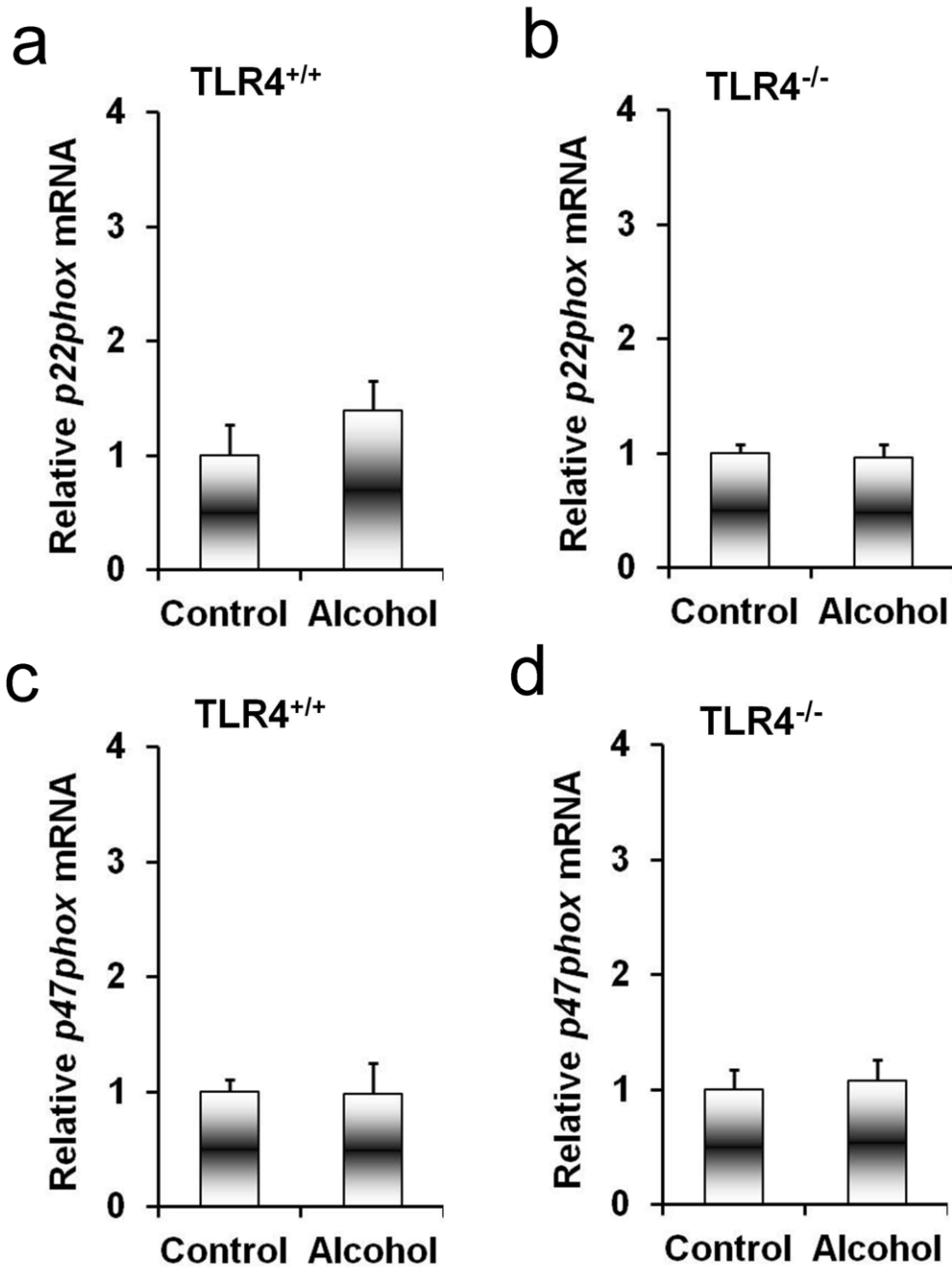
Supplementary information

Tlr4-mutant mice are resistant to acute alcohol-induced sterol-regulatory element binding protein activation and hepatic lipid accumulation

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Supplementary Figure S1. Effects of acute alcohol exposure on hepatic NADPH oxidase subunits. All mice except controls were administered with ethanol (4 g/kg) by gavage. Liver tissue was collected at 2 h after alcohol. The expression of hepatic (a,b) *p22phox* and (c,d) *p47phox* mRNA was determined using real-time RT-PCR. Data were expressed as means \pm SEM (N=6).

Supplementary Table S1. Oligonucleotide sequence of primers for real-time RT-PCR

Genes	Forward (5'-3')	Reverse (5'-3')
<i>18S</i>	GTAACCCGTTGAACCCATT	CCATCCAATCGGTAGTAGCG
<i>fas</i>	CGCTCGGCTCGATGGCTCAG	CCAGCACCACGGCATGCTCA
<i>acc</i>	CCGTTGGCCAAAACCTCTGGAGCTAA	GAGCTGACGGAGGCTGGTGACA
<i>scd-1</i>	CGGTCATCCCATCGCCTGCTCT	GTAGGCGAGTGGCGGAACTGC
<i>dgat-2</i>	GGATGCCTGTGCTTCGCGAGT	GCTGCACCTCCCACCACGATG
<i>irs-1</i>	AAAAGCCACTTTCCCGCCCG	CCACCAGCCGCCCAAATACCA
<i>irs-2</i>	GCGGAGTGTGTGGGGTCCA	GGGGCTGGTAGCGCTTCACT
<i>ho-1</i>	CGTCACTTCGTCAGAGGCCTGC	TCTGGGGTTTCCCTCGGGGTG
<i>sod-2</i>	AGCGAACGGCCGTGTTCTGAG	AGCGCGCCATAGTCGTAAGGC
<i>p67phox</i>	CTGTGGTGTGAGCATACGGT	TTAGGCTGAGGCTCCGTAGT
<i>gp91phox</i>	GGGAACTGGGCTGTGAATGA	CAGTGCTGACCCAAGGAGTT
<i>p22phox</i>	AGTGAGGACTTGCGAAGTGG	GAGTAGGCGCCGAAATACCA
<i>p47phox</i>	CCAGGGCACTCTCACTGAATA	ATCAGGCCGCACTTTGAAGAA

Supplementary Table S2. The effects of acute alcohol exposure on mRNA level of housekeeping genes in mouse liver

Housekeeping genes	Cycle numbers		P value
	Control	Alcohol	
<i>β-actin</i>	24.39±0.59	22.08±0.52	0.001
<i>Gapdh</i>	17.45±0.82	15.92±0.41	0.016
<i>18S</i>	10.41±0.17	10.49±0.25	0.589

All mice except controls were administered with ethanol (4 g/kg) by gavage. Liver tissue was collected at 6 h after alcohol. The expression of hepatic housekeeping genes were determined using real-time RT-PCR. Data were expressed as means ± SEM (N=6).