

Supplementary Materials to

**Hepatoprotective Effect of Kombucha Tea in Rodent Model of Nonalcoholic
Steatohepatitis**

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Supplementary Table**Table S1. Changes in liver weight and body weight in experimental animal.**

Parameter	db/db Mice		
	CON	M + V	M + K
Liver weight (g)	1.916 ± 0.177	1.304 ± 0.044*	1.404 ± 0.071*
Body weight (g)	29.810 ± 3.530	24.992 ± 0.615**	27.933 ± 0.933**/#
LW/BW ratio	0.065 ± 0.002	0.052 ± 0.001**	0.500 ± 0.002**

Liver weight (LW), Body weight (BW), and the ratio of liver to body weight (LW/BW) of CON, M+V and M+K groups. (* $p<0.05$, ** $p<0.005$ vs CON group, # $p<0.05$, ## $p<0.005$ vs M+V group)

Table S2. Mouse primer sequences used for QRT-PCR

GENE	Forward	Reverse
<i>G6pc</i>	5'-TCCTCCTCAGCCTATGTCTGCATT-3'	5'-GAGAGAAGAACCTGGTCTCCTG-3'
<i>9s</i>	5'-GGGCCTGAAGATTGAGGATT-3'	5'-CGGGCATGGTGAATAGATTT-3'
<i>Cd36</i>	5'-TCCTCTGACATTGCAGGTCTATC-3'	5'-AAAGGCATTGGCTGGAAGAA-3'
<i>Ppary</i>	5'-CACAATGCCATCAGGTTGG-3'	5'-GCTGGTCGATATCACTGGAGATC-3'
<i>Fas</i>	5'-GCTGCGAACCTTCAGGAAAT-3'	5'-AGAGACGTGCACTCCTGGACTT-3'
<i>Srebp1c</i>	5'-GGAGCCATGGATTGCACATT-3'	5'-GGCCCGGGAAAGTCACTGT-3'
<i>Dgat2</i>	5'-CTGGCTGATAGCTGCTCTACTTC-3'	5'-TGTGATCTCCTGCCACCTTC -3'
<i>Fabp1</i>	5'-CCAGGAGAACCTTGAGCCATT-3'	5'-TGTCCCTCCCTTCTGGATGA -3'
<i>Pppargc1α</i>	5'-CAGAGGATGGACACTGTAAAGG-3'	5'-CGGCACTTCTTGATCAAGCC-3'
<i>Ppara</i>	5'-CAGGAGAGCAGGGATTGCA-3'	5'-CCTACGCTCAGCCCTCTTCAT-3'
<i>Aox1</i>	5'-CAGGAAGAGCAAGGAAGTCC-3'	5'-CCTTCTGGCTGATCCCATA-3'
<i>Cpt1</i>	5'-CAGAGGATGGACACTGTAAAGG-3'	5'-CGGCAGTTCTTGATCAAGCC-3'
<i>Mcad</i>	5'-GATGCATCACCCCTCGTGTAAAC-3'	5'-AAGCCCTTTCCCCTGAAG-3'
<i>Cxcl1</i>	5'-CCCAAACCGAACGTCAAGCC-3'	5'-TCAGAACGCCAGCGTTCAACC-3'
<i>Cxcl2</i>	5'-GCCAGACAGAACGTCAAGCC-3'	5'-TTCTCTTGGTTCTCCGTTGA-3'
<i>Il-1β</i>	5'-ACTCCTTAGTCCGCCA-3'	5'-TGGTTCTTGTGACCCCTGAGC-3'
<i>Tnfa</i>	5'- TCGTAGCAAACCAACCAAGTG-3'	5'- ATATAGCAAATCGGCTGACG -3'
<i>Shh</i>	5'-CTGGCCAGATGTTTCTGGT-3'	5'-GATGTCGGGTTGTAATTGG-3'
<i>Smo</i>	5'-CAGCAAGATCTCGAGACCA-3'	5'-AAGTGGCAGATGAAGGTGAT-3'
<i>Gli2</i>	5'-CAAGCAGAACAGCGAGTCAC-3'	5'-CCTCAGCCTCAGTCTTGACC-3'
<i>Tgfβ</i>	5'-TTGCCCTCTACAACCAACACAA-3'	5'-GGCTTGCACCCACGTAG-3'
<i>a-sma</i>	5'-AACAGGAATACGACGAAG-3'	5'-CAGGAATGATTGGAAAGGA-3'
<i>Col1a1</i>	5'-GAGCGGAGAGTACTGGATCG-3'	5'-GCTTCTTCCCTGGGTTTC-3'
<i>Ctgf</i>	5'-ACTGCCCTCCCGAGAA-3'	5'-TCCTTGGCTCGTCACACA-3'
<i>Timp1</i>	5'-CCTTGCAAACCTGGAGAGTGACA-3'	5'-AAGCAAAGTGACGGCTCTGGT-3'

Supplementary Figure

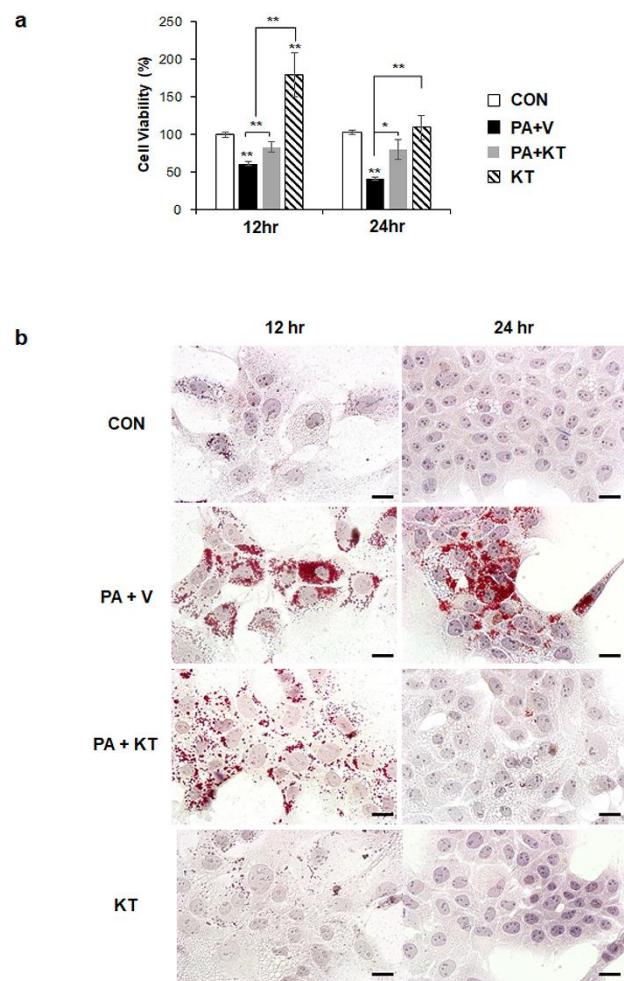


Figure S1 KT increases viability of and suppress lipid accumulation in PA-injured AML12

(a) Cell viability of AML12, normal hepatocyte cell line originated from mouse, treated with KT was analyzed using MTS assay. After being exposed to 250 μ M of palmitate (PA) for 24 hours, primary hepatocytes were treated with vehicle (PA + V) or KT (PA+KT) for 12 and 24 hours. As a control, AML12 was treated with equal volume of vehicle (BSA) without PA for 24 hours, and then given with (KT) or without KT (CON). The mean \pm SEM results obtained from three repetitive experiments are graphed (* $p<0.05$, ** $p<0.005$ vs CON). (b) Oil red O staining in these cells. Representative images are shown (Scale bars: 20 μ m)