

Table S1. Primers used in PCR analysis.

Gene	Sense primer	Antisense primer
<i>18s</i>	ACACGGACAGGATTGACAGATTG	GCCAGAGTCTCGTTCGTTATCG
<i>Acot5</i>	ATCTGGAGTACTTTGAGGAAG	TTGAAATAACGTTGACCGTG
<i>Acsm2</i>	ACAATGAAAAGTCAAACCAGG	GATTGTCCACATATCCAGAG
<i>Alpl</i>	ATTCCCCTATGTCTGGAAC	CTCAAAGAGACCTAAGAGGTAG
<i>Cd14</i>	GAATCTACCGACCATGGAG	AAGTTGCAGGAACAACCTTC
<i>Cldn4</i>	GACTGTGCAAAGTTACTAGC	ACCAGCAATTTGGATGTAAG
<i>Des</i>	CAGGATCAACCTTCCTATCC	CTGTCCTTTGGTATGGACTTC
<i>Cyp7b1</i>	ATGCTCCAAAGGAATTTAGG	TCCAAAAGGCATAACGTAAG
<i>G6pc</i>	TTCAAGTGGATTCTGTTTGG	AGATAGCAAGAGTAGAAGTGAC
<i>Fads1</i>	TTCTATTTTGTGGTTCAGCG	ATGGGGATATGGTTCATCTG
<i>Fads2</i>	TCATCATGACAATGATCAGC	CAGGAACCTGATAAAGTTGAG
<i>Glut2</i>	TTGTGCTGCTGGATAAATTC	AAATTCAGCAACCATGAACC
<i>Gpx1</i>	GGAGAATGGCAAGAATGAAG	TTCGCACTTCTCAAACAATG
<i>Hprt</i>	AGGGATTTGAATCACGTTTG	TTTACTGGCAACATCAACAG
<i>Hsd3b5</i>	CATGAAGAGGAATTGTCCAAG	GCTGAGTACCTTTCAGATTG
<i>Il1b</i>	GGATGATGATGATAACCTGC	CATGGAGAATATCACTTGTTGG
<i>Il6</i>	AAGAAATGATGGATGCTACC	GAGTTTCTGTATCTCTCTGAAG
<i>Lbp</i>	CACTCCCCAGATATACAAAAAG	AGGCAAATACATTAGTGACC
<i>Panx1</i>	AGTTCAAAGATTTGGACCTG	GACACACACTACATCAATACC
<i>Pck1</i>	AATATGACAACCTGTTGGCTG	AATGCTTTCTCAAAGTCCTC
<i>Pdk4</i>	ACAATCAAGATTTCTGACCG	TCTCCTTGAAAATACTTGGC
<i>Scd1</i>	GTGGGGTAATTATTTGTGACC	TTTTTCCCAGACAGTACCAAC
<i>S100a8</i>	GATGGTGATAAAAAGTGGGTG	CTGTAGACATATCCAGGGAC
<i>Spp1</i>	GGATGAATCTGACGAATCTC	GCATCAGGATACTGTTTCATC
<i>Star</i>	GCGGAATATGAAAGGATTAAGG	GTCACTATAGAGTGTTGCTTC
<i>Sult2a1</i>	GTCTTTCTTCAGTTCCAAGG	CCCAGAAAAAGTAACCAGAC
<i>Sult3a1</i>	TTCTAGATGGAGATGTGGTAG	CTTCACTCAGTTCTTTCTCC
<i>Tff3</i>	CCTGGTTGCTGGGTCCTCTG	GCCACGGTTGTTACACTGCTC
<i>Tgfb1</i>	CCCTATTTAAGAACACCC	AAGGTGTCTCAGTATACCAC
<i>Tnf</i>	CGTGGAACCTGGCAGAAGAGG	CAGGAATGAGAAGAGGCTGAGAC
<i>Tjp1</i>	GGGGCCTACACTGATCAAGA	TGGAGATGAGGCTTCTGCTT

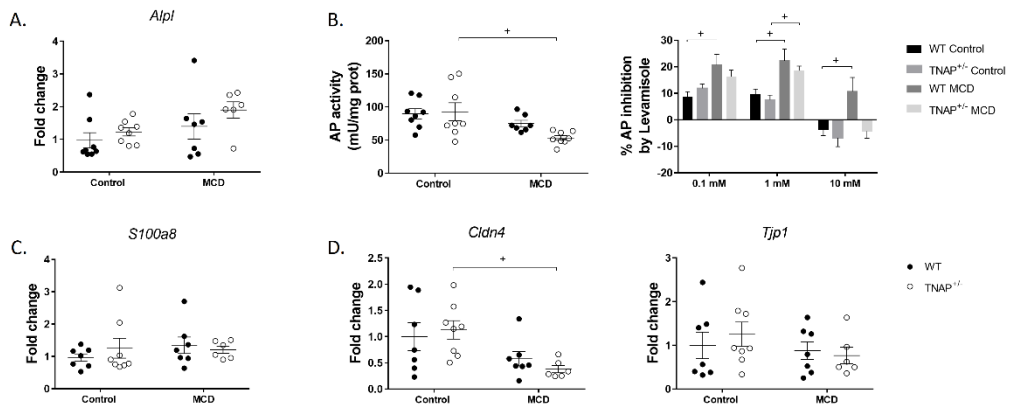


Figure S1. Intestinal inflammatory and barrier markers in wild type (WT) and TNAP heterozygous mice (TNAP^{+/-}) fed a control diet (10% w/w fat, control) or the same diet deficient in choline and methionine (MCD). A. *Alpl* expression (RT-qPCR). B. AP activity and inhibition by levamisole. C. *S100a8* expression (RT-qPCR). D. Claudin 4 and ZO1 expression by RT-qPCR.

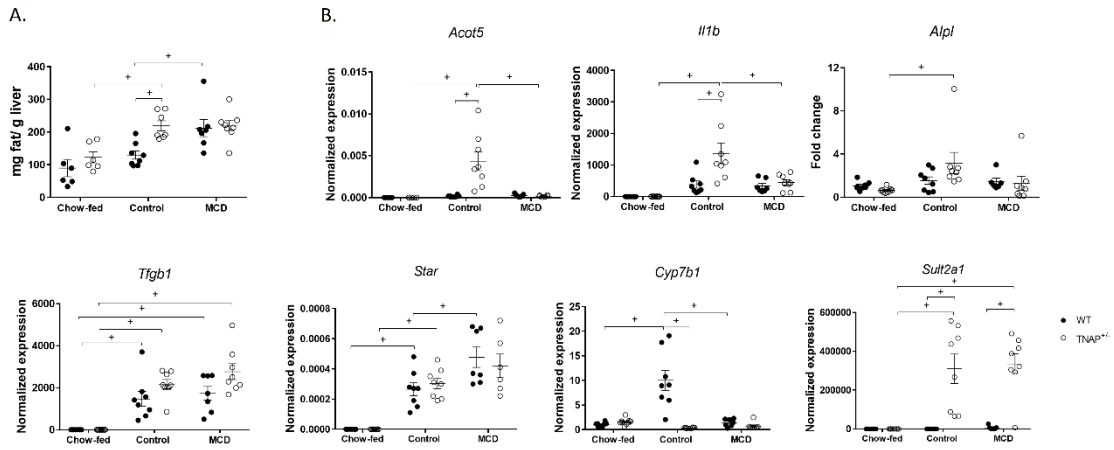


Figure S2. Comparison of hepatic parameters between the study groups and reference wild type (WT) and TNAP heterozygous mice (TNAP^{+/-}) fed regular chow diet. A. Liver fat content. B. Expression of various genes by RT-qPCR. *p<0.05.