

Legends to supplementary figures:

Figure S1. Nicotinamide riboside promotes liver regeneration.

(A) Immunohistochemistry for Ki-67 at 48h post PHx.

(B) Transcripts from cell cycle related genes (cyclins, cyclin dependent kinases and cyclin dependent kinase inhibitors) were analyzed at 24h post PHx.

(C) *Left:* Weights of the resected liver portions from vehicle (H₂O) or NR treated animals, normalized to body weights. *Right:* Weights of resected liver portions from control or Nampt overexpressing mice, normalized to body weight.

(D) Percent of weight loss post PHx.

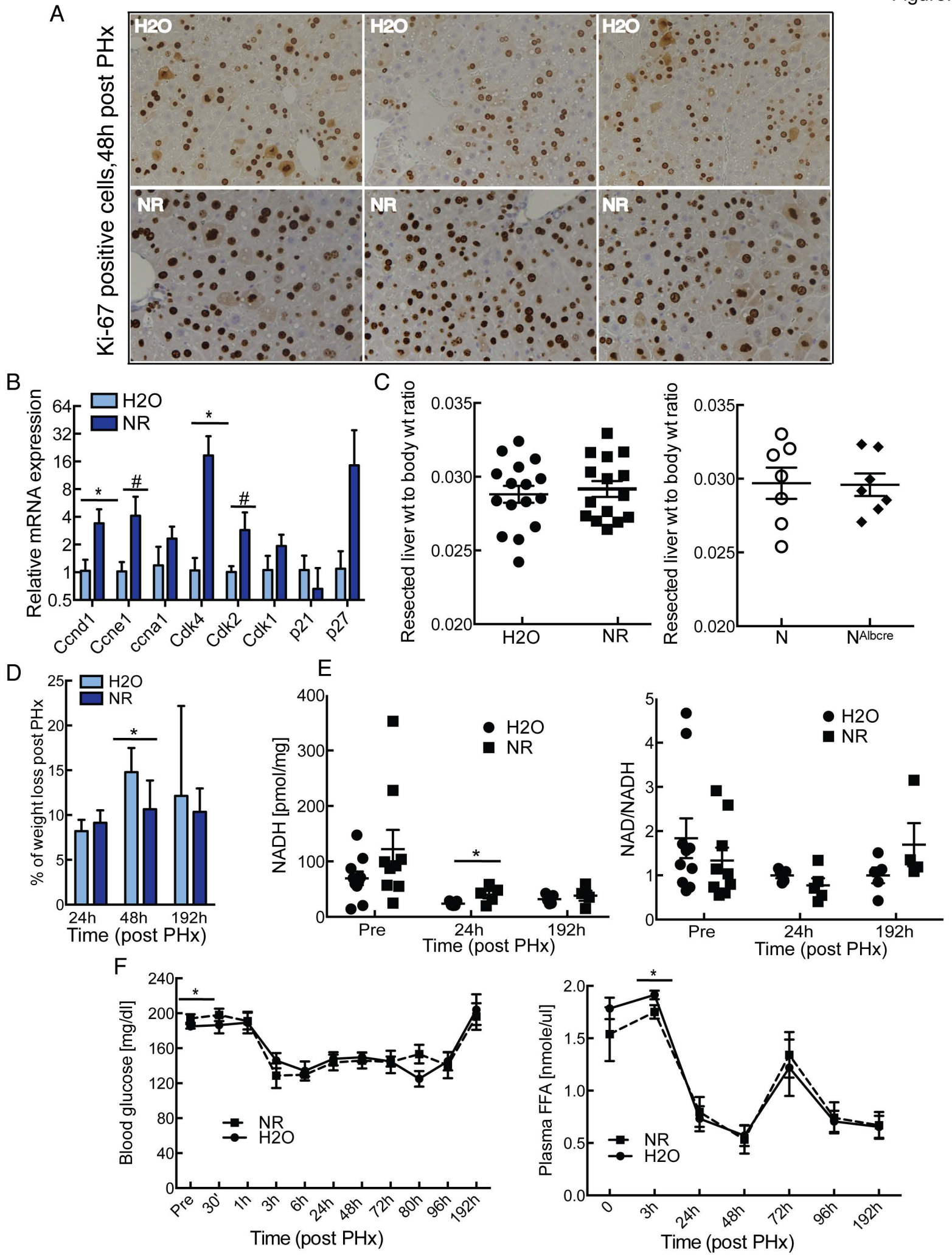
(E) *Left:* Liver NADH content pre and post PHx. *Right:* NAD/NADH ratio pre and post PHx

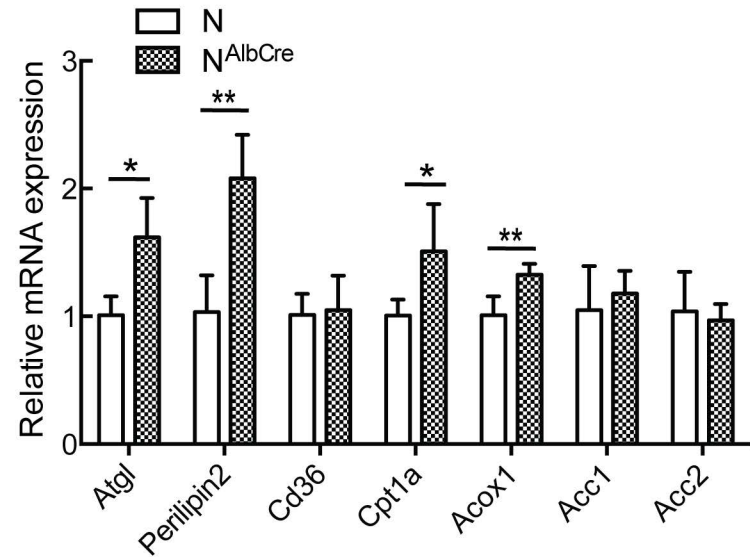
(F) *Left:* Blood glucose measured in random fed mice pre and post PHx. *Right:* Plasma FFA content pre and post PHx in NR and H₂O treated mice.

Error bars represent S.E.M. #, $p < 0.1$; *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$.

Figure S2. Nampt overexpression induces Atgl and Perlipin 2. mRNA expression levels for genes regulating lipid metabolism were determined in livers of wild type (N) or liver-specific Nampt overexpressing (NALbCre) mice pre or 24 hours post PHx.

Error bars represent S.E.M. *, $p < 0.05$; **, $p < 0.01$.





Supporting Table S1. Primer list for RT-qPCR.

Gene	Forward primer	Reverse primer
<i>b-actin</i>	GGCTGTATTCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT
<i>Atgl</i>	GACGGAGAGAACGTCATCATATC	CCACAGTACACCGGGATAAAT
<i>Perilipin2</i>	GTGGAAAGGACCAAGTCTGTG	GACTCCAGCCTGTCATAGTTG
<i>Hsl</i>	CCAGCCTGAGGGCTTACTG	CTCCATTGACTGTGACATCTCG
<i>Pdk4</i>	TCCTTCCTTCCTTCCTTCTTCC	TGGGAGTCAAAGTCTCTGCTGT
<i>Dgat1</i>	TGGTGTGTGGTGATGCTGATC	GCCAGGCGCTTCTCAA
<i>Cd36</i>	GAACCACTGCTTTCAAAAAGTGG	TGCTGTTCTTTGCCACGTCA
<i>Lcad</i>	TCTTTTCTCGGAGCATGACA	GACCTCTCTACTCACTTCTCCAG
<i>Mcad</i>	AGTACCCGTTCCCTCTCATCA	CCATACGCCAACTCTTCGGTAA
<i>Cpt1a</i>	GCAGAGGCTCACCAAGCTGTG	CTTCGTCTGGCTTGACATGCG
<i>Acox1</i>	CAGACCCTGAAGAAATCATGTGG	CAGGAACATGCCCAAGTGAAG
<i>Fasn</i>	GCTGCGGAAACTTCAGGAAAT	AGAGACGTGTCACTCCTGGACTT
<i>Srebp1c</i>	GGAGCCATGGATTGCACATT	GGCCCGGGAAGTCACTGT
<i>Acc1</i>	GACAGACTGATCGCAGAGAAAG	TGGAGAGCCCCACACACA
<i>Acc2</i>	CGCTCACCAACAGTAAGGTGG	GCTTGGCAGGGAGTTCCTC
<i>Clpp</i>	TGTTGCGGGAACGCATCGTGT	AGATGGCCAGGCCCGCAGTT
<i>Hspe1</i>	CTGACAGGTTCAATCTCTCCAC	AGGTGGCATTATGCTTCCAG
<i>Hspd1</i>	GCTGTAGCTGTTACAATGGGG	TGACTTTGCAACAGTGACCC
<i>Atf4</i>	TGAAGGAGTTCGACTTGGATGCC	CAGAAGGTCATCTGGCATGGTTTC
<i>Chop</i>	CCACCACACCTGAAAGCAGAA	AGGTGAAAGGCAGGGACTCA
<i>Grp78</i>	GTGGAGATCATAGCCAACGA	GCTGGTACAGTAACAACCTGC
<i>Xbp1s</i>	AAGAACACGCTTGGGAATGG	CTGCACCTGCTGCGGAC
<i>Xbp1m</i>	AGCAGCAAGTGGTGGATTTG	GAGTTTTCTCCGTAAAAGCTGA
<i>Atp5a1</i>	CATTGGTGATGGTATTGCGC	TCCCAAACACGACAACCTCC
<i>Cox5b</i>	ACCCTAATCTAGTCCCCTCC	CAGCCAAAACCAGATGACAG
<i>Cytc</i>	GGAGGCAAGCATAAGACTGG	TCCATCAGGGTATCCTCTCC
<i>Sdhb</i>	ACCCCTTCTCTGTCTACCG	AATGCTCGCTTCTCCTTGTAG
<i>Nampt</i>	AGCAGCAGAGCACAGTACCA	GCTATCGCTGACCACAGACA
<i>Ccna1</i>	GCCTTCACCATTCTATGTGGAT	TTGCTGCGGGTAAAGAGACAG
<i>Ccnd1</i>	GCGTACCCTGACACCAATCTC	CTCCTCTTCGCACTTCTGCTC
<i>Ccne1</i>	GTGGCTCCGACCTTTCAGTC	CAGTCTTGCAATCTTGGA
<i>Cdk1</i>	ACACCTTCAAATCCAAGCCTTC	TGTCAGCAAGACAAACCCAAGT
<i>Cdk2</i>	AGGTTTTGCCATCCCAATCTTA	CCCAACTTAGGCTTCTGCTCAT
<i>Cdk4</i>	CCAATGTTGTACGGCTGATGG	GCTTGACGGTCCCATTACTTG
<i>p21</i>	CCTGGTGATGTCCGACCTG	CCATGAGCGCATCGCAATC
<i>p27</i>	GCAGATACGAGTGGCAGGAG	GAATCTTCTGCAGCAGGTCTG