

Pulsed Azidohomoalanine Labeling in Mammals (PALM) detects changes in Liver-specific LKB1 knockout mice

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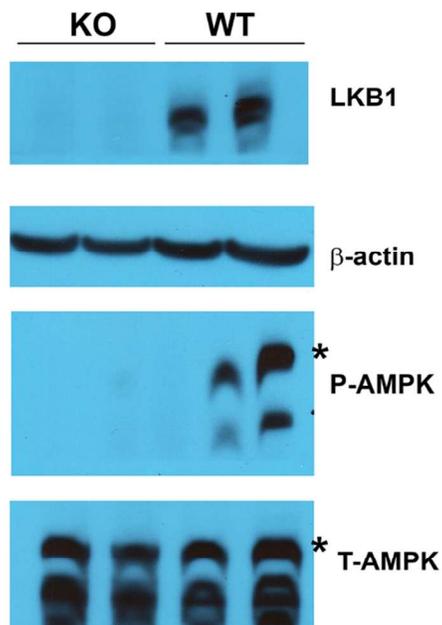
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All proteins identified and quantified are deposited at <http://sealion.scripps.edu/pint/?project=f302f024b4d5aa1f>, where the data can be queried and is linked to additional protein information. The data is organized by experiments and figures outline in the main text.

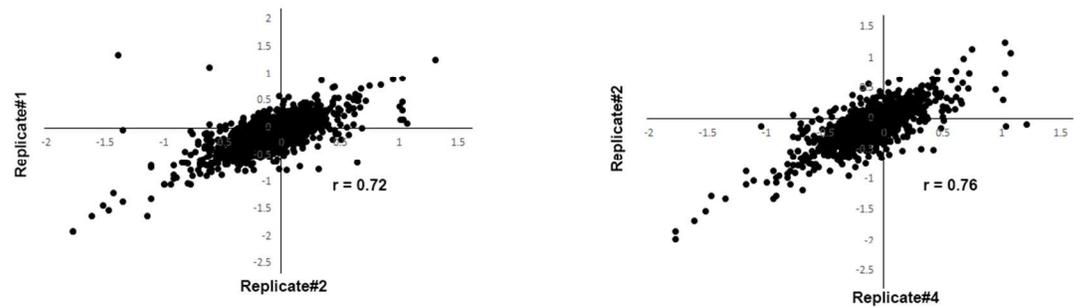
Amino Acids (g/kg)	DIET		
	Standard	PALM	Control
AHA	0	2	0
Alanine	3.5	9.23	9.23
Arginine	12.1	3.7	3.7
Asparagine	6	10.25	10.25
Aspartic Acid	3.5	12.06	12.06
Cystine	3.5	3	3
Glutamic Acid	40	49.45	49.45
Glycine	23.3	28.12	28.12
Histidine	4.5	3.5	3.5
Isoleucine	8.2	4.25	4.25
Leucine	11.1	7.5	7.5
Lysine	18	5.5	5.5
Methionine	8.2	0	2
Phenylalaine	7.5	7.5	7.5
Proline	3.5	3.5	3.5
Serine	3.5	12.32	12.32
Threonine	8.2	4.25	4.25
Tryptophan	1.8	1.25	1.25
Tyrosine	5	5	5
Valine	8.2	5.5	5.5

Table S-1: List of the amino acids (g/kg) in the standard, PALM, and control diets



Supplementary Figure 1

Figure S-1. Verification of removal of LKB1 from mouse livers. The same mouse livers that were analyzed by PALM analysis were prepared for immunoblot analysis. LKB1 was detected in the WT livers but not the KO livers. Upon deletion of LKB1, loss of AMPK(P-AMPK) phosphorylation on Thr172 was observed as previously reported¹². Total AMPK(T-AMPK) and beta-actin were employed as loading controls. The asterisk denotes the full-length protein.



Supplementary Figure 2

Figure S-2. Correlation of other technical replicates of quantitated peptides from NSP not shown in Figure 4B.