Adipose tissue dysfunction is associated with low levels of the

novel Palmitic Acid Hydroxystearic Acids

Ann Hammarstedt<sup>1\*</sup>, Ismail Syed<sup>2</sup>, Archana Vijayakumar<sup>2</sup>, Björn Eliasson<sup>1</sup>, Silvia Gogg<sup>1</sup>,

Barbara B. Kahn<sup>2</sup> and Ulf Smith<sup>1</sup>

<sup>1</sup>The Lundberg Laboratory for Diabetes Research, Departments of Molecular and Clinical

Medicine, Institute of Medicine, Sahlgrenska Academy at the University of Gothenburg,

Gothenburg, Sweden. <sup>2</sup>Department of Medicine, Beth Israel Deaconess and Harvard

Medical School, Boston, Massachusetts, USA.

\*Corresponding author:

Ann Hammarstedt, PhD

The Lundberg Laboratory for Diabetes Research

Blå Stråket 5, Sahlgrenska University Hospital

413 45 Göteborg

Sweden

E-mail: <u>Ann.hammarstedt@medic.gu.se</u>

Phone: +46-31 342 6646

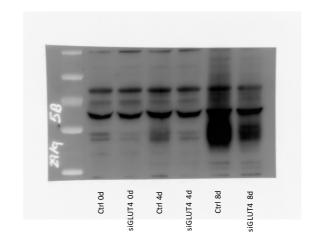
# Supplemental table 1. Partial correlations controlling for adipocyte cell size

Gene vs GLUT4	$R_p$	p-value
ΡΡΑΚγ	0.50	0.001
C/EBPα	0.48	0.001
Adiponectin	0.75	<0.001
ChREBP	0.32	0.034
ACACA	0.75	<0.001
FASN	0.65	<0.001
PAHSA vs GLUT4	$R_p$	p-value
Total-PAHSA	0.67	0.024
5-PAHSA	0.18	0.61
9-PAHSA	0.63	0.039
10-PAHSA	0.54	0.087
12/13-PAHSA	0.61	0.049

### **Full length captures**

Full length membarnes to Figure 3A
Some of the original membranes have been
cut to enable blotting of multiple proteins
at different molecular size.
The original tiff-files from caputre is full
length.

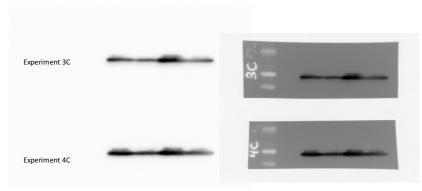
Figure 3A GLUT4 protein

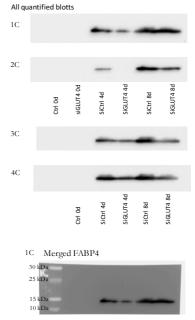


## Full length membarnes to Figure 3C FABP4 protein

Some of the original membranes have been cut to enable blotting of multiple proteins at different molecular size. The original tiff-files from caputre is full size.

Two independent experiments have been visulized at the same time -> both are on the original TIFF-file





1.C, 2.C, 3C, 4C FABP4 #3544 1:1000 rabbit NuPage 4-12%, 1mm, MOPS, BioRad transfer 30 min

# Full length membarnes to Figure 3C Perilipin protein

Some of the original membranes have been cut to enable blotting of multiple proteins at different molecular size.

The original tiff-files from caputre is full length.



1.B och 2.B Perilipin #9349s 1:1000 rabbit NuPage 4-12%, 1mm, MOPS, BioRad transfer 30 min

#### All quantified blotts

