Supplementary Materials: Breast-Associated Adipocytes Secretome Induce Fatty Acid Uptake and Invasiveness in Breast Cancer Cells via CD36 Independently of Body Mass Index, Menopausal Status and Mammary Density

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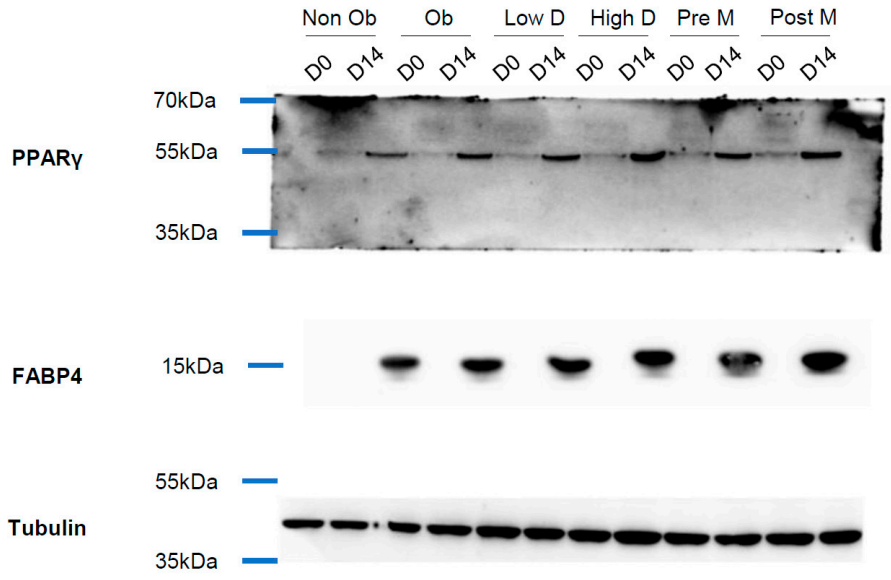


	Non Ob		Ob		Low D		High C		Pre M		Post M	
	D0	D14	D0	D14	D0	D14	D0	D14	D0	D14	D0	D14
PPARγ	0.02357644	0.55473104	0.00570736	0.51658066	0.00999297	0.54375981	0.0170117	0.5330375	0.00895798	0.52812307	0.02763506	0.55649261
FABP4	0.00944453	1.82557544	0.01444163	1.94452062	0.01174121	1.92930307	0.010490924	1.78892917	0.01450824	1.92877003	0.00684606	1.78972872
Tubulin	3847340.96	4079989.33	3115301.67	4831050	3718620.44	4617883.33	3860917.568	4024209	3009060.16	4556796	4372722.87	4115840

Figure S1. The whole blot showing all the bands with all molecular weight markers on the western blotting.

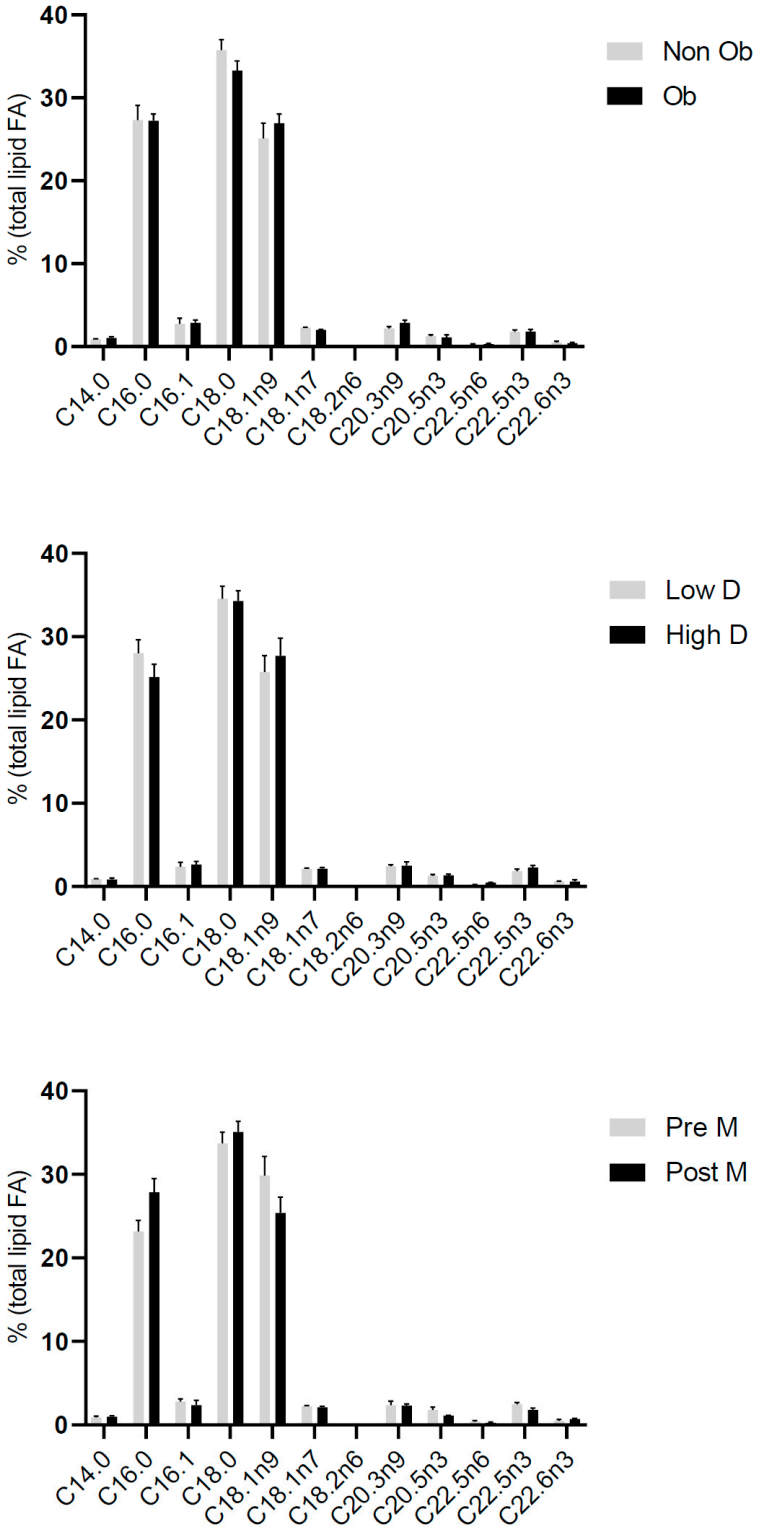


Figure S2. Fatty acids profiles of ASCs-conditioned medium.

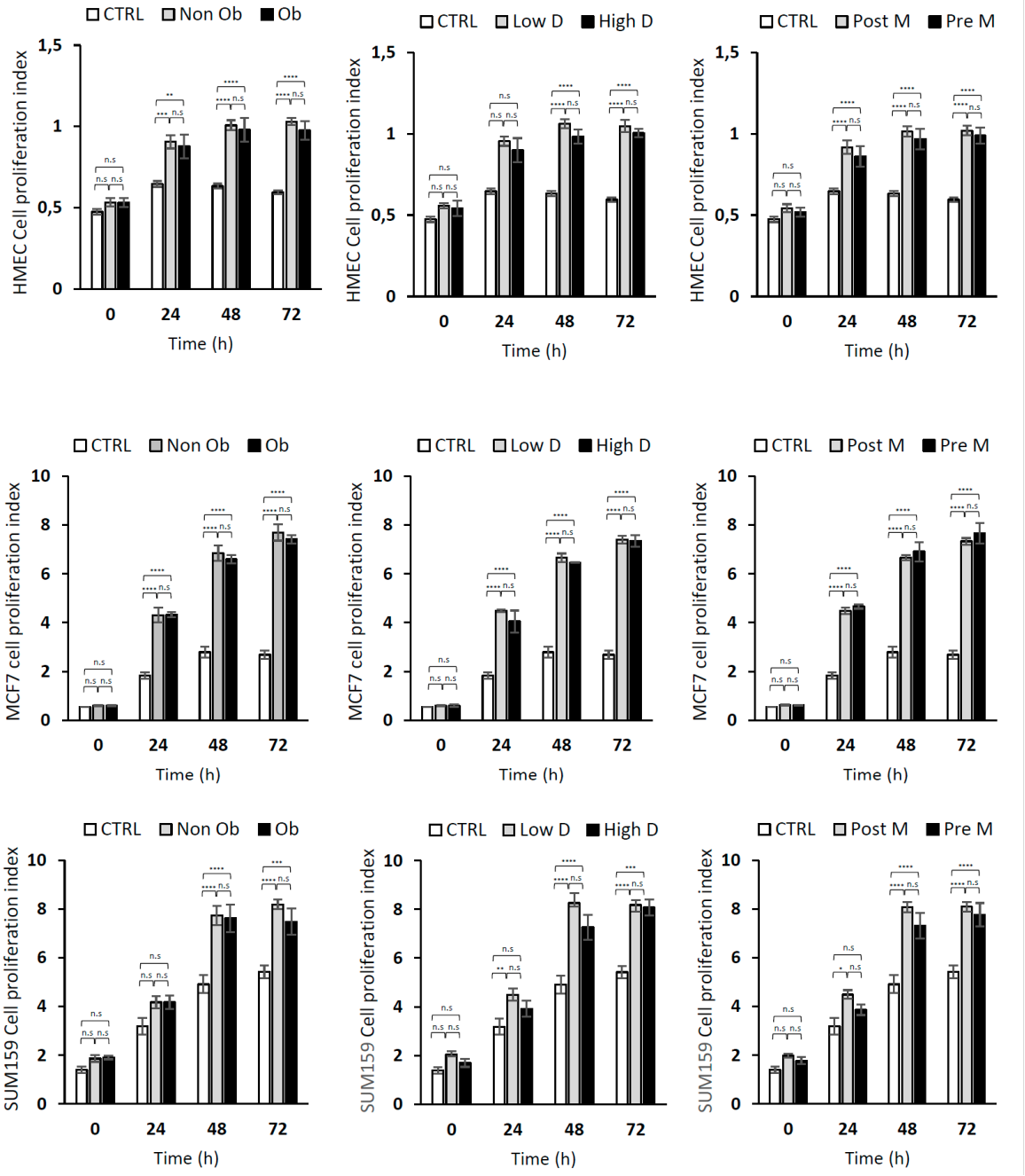


Figure S3. Bar chart representing the proliferation of cells treated with control or ASCs-conditioned medium at 12, 24, 48 and 72 h. n.s. no significance; $p \geq 0.05$; ** $p < 0.01$; **** $p < 0.0001$.

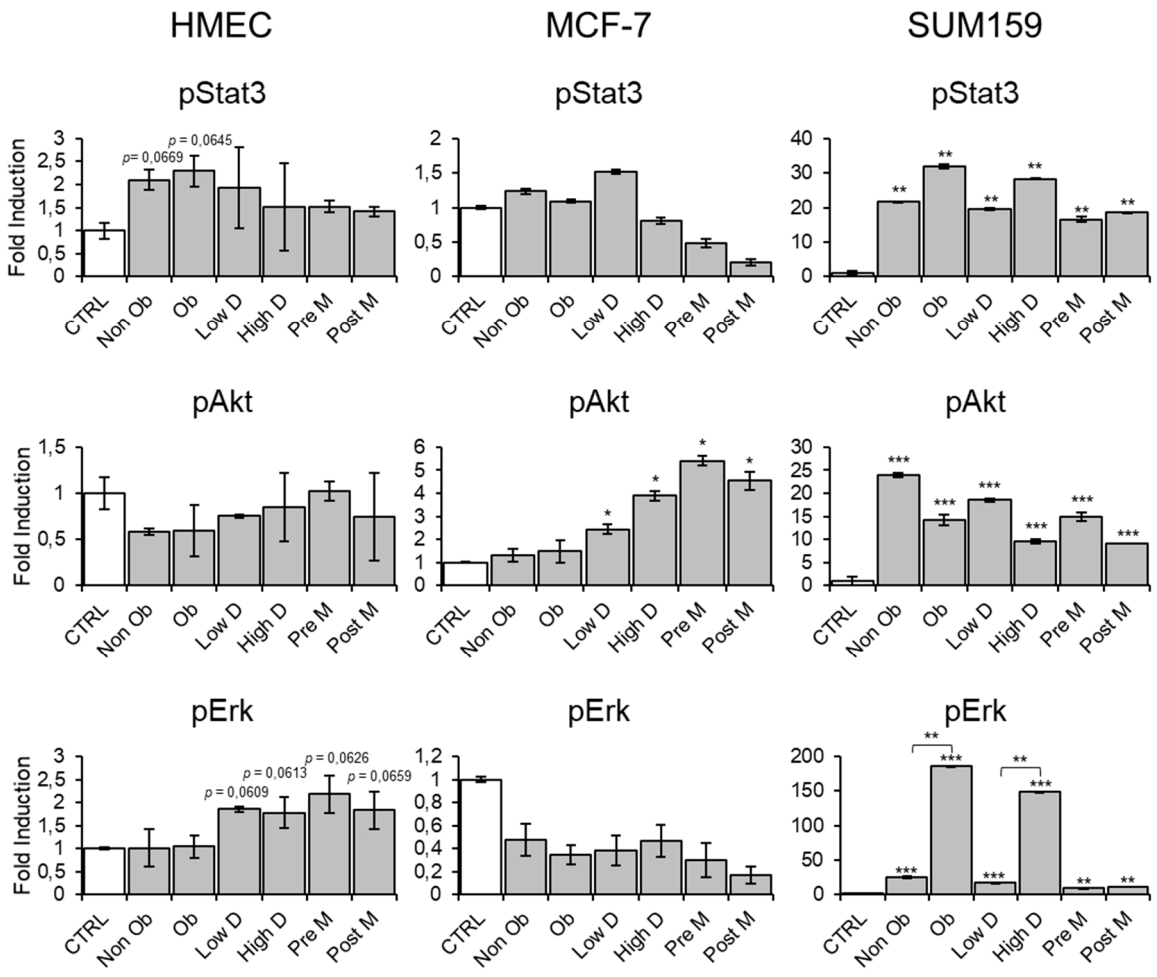
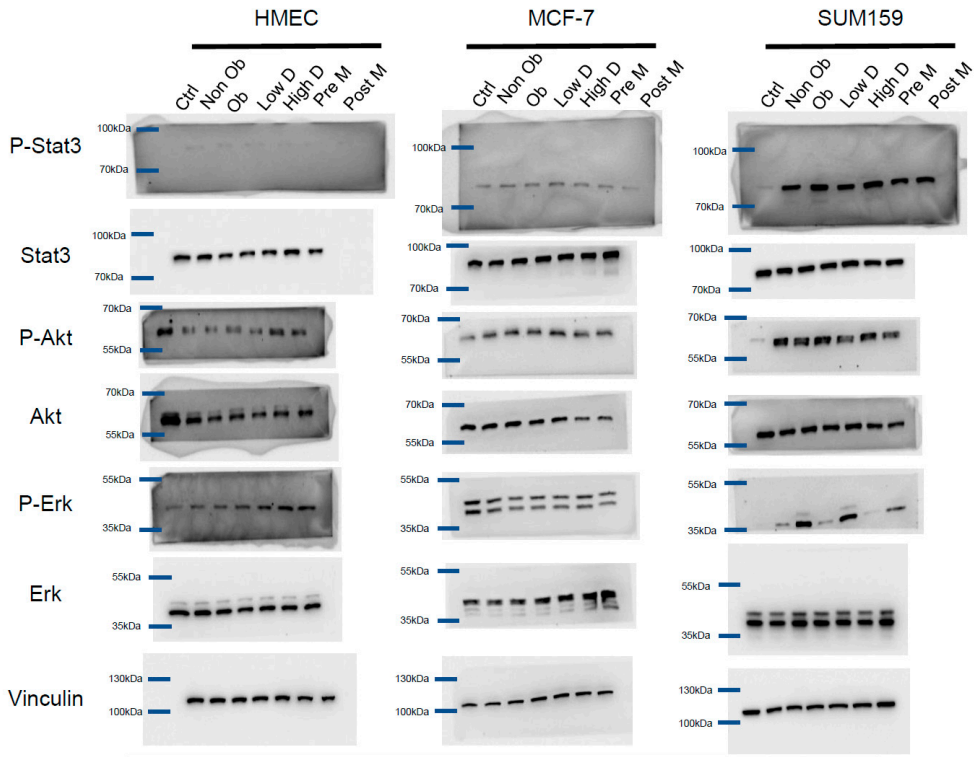
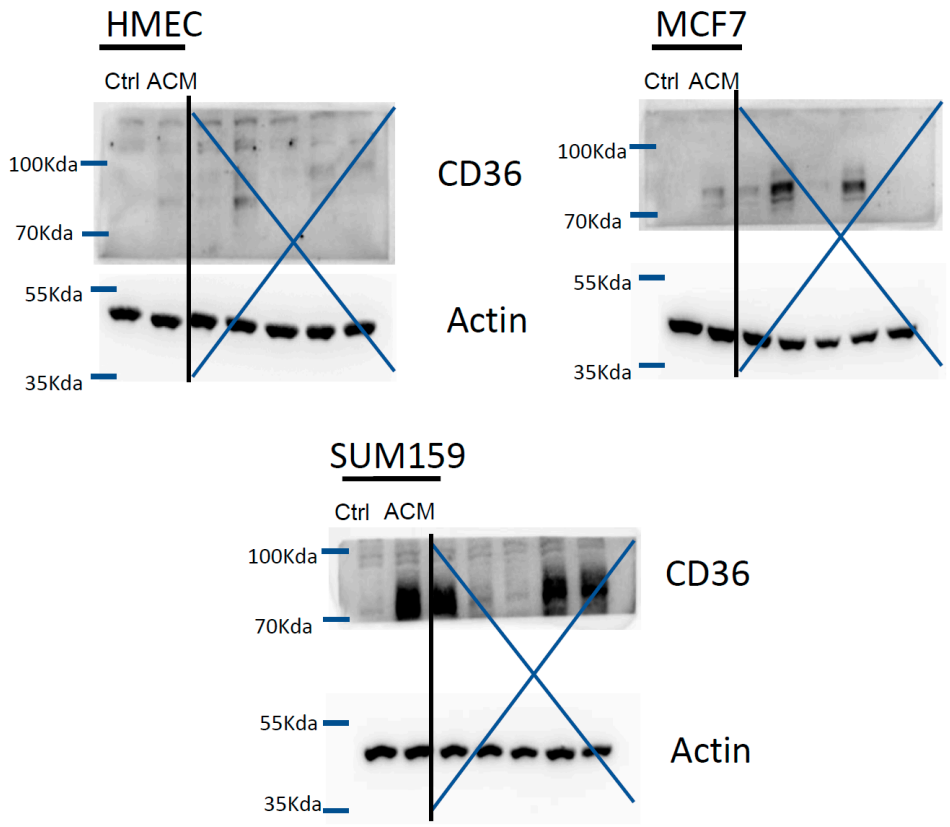


Figure S4. Western blot quantification. n.s. $p \geq 0.05$; * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.



	CTRL	Non Ob	Ob	Low D	High D	Pre M	Post M
HMEC				P-Stat3			
	15227,833	197199,83	136671,2	153458	78324,167	53004,048	58294,774
				Stat3			
	2959536,2	3308379,4	2523184,7	3467647,7	3207564,9	3003339,3	3556861,8
				P-Akt			
	3024567,6	1042801	828037,31	1211626,7	848201,38	1913805,3	1466494,8
				Akt			
	8526431,4	3769415,5	2219260,3	2823036,4	1994015,3	2552461,1	2555231,2
				P-Erk			
	475732,21	635490,81	684285,7	914985,13	951181,26	1621092,7	1572491,9
				Erk			
	5629621,2	5551177,1	4391582	3627586,4	4484970,4	4272323,3	4669436,3
				Vinculin			
	4438654	4302443,7	4063860,6	3858391,9	3964239,7	3106775,8	3083843,1
	CTRL	Non Ob	Ob	Low D	High D	Pre M	Post M
MCF7				P-Stat3			
	440612,67	580652	506566,33	715994,33	474114,33	430913,67	211705,67
				Stat3			
	2581686,2	2990407,9	3555990,6	3568760,5	4456367,6	5061525,7	6783989,9
				P-Akt			
	1037372,6	1835882,8	2159373,7	2177195,4	2350641,3	1834723,7	1860548
				Akt			
	3911123,6	3497833,8	4132185,1	3125838,5	2961206,7	1524238,8	1618868,5
				P-Erk			
	11206742	6649025,9	4879770,2	5670741	5628552,8	6671086,8	5056920,1
				Erk			
	3176037,4	2597719,9	3021515,1	3936164,5	4424711,8	7490048,6	8746421,6
				Vinculin			
	1975132	1850752,7	2331138,3	3263971	3380255,3	2913344,3	2389018,7
	CTRL	Non Ob	Ob	Low D	High D	Pre M	Post M
SUM159				P-Stat3			
	133709,61	2935036,6	5300257,2	3431144,2	5154562,6	2975151,6	3358349,6
				Stat3			
	5450142,1	4924503,2	5924335,3	6032831,2	6482056,9	5973105	4971467,3
				P-Akt			
	285208,42	4495969,2	3784071,2	4572961,8	2788582	4108692,8	2764441,7
				Akt			
	5368697,1	3530568,3	4350263,2	3776721,3	4268788,5	3104549,3	2573428,3
				P-Erk			
	50603,12	679063,32	5666001,9	433907,52	4491540	104873,64	1561489
				Erk			
	461485,15	238580,68	241137,17	187699,66	214817,47	61566,396	561513,62
				Vinculin			
	5904084,3	3676117,9	3588657	3968933,4	3891803	4513584,3	6180057,4

Figure S5. The whole blot showing all the bands with all molecular weight markers on the western blotting.



	HMEC		MCF7		SUM159	
	Ctrl	ACM	Ctrl	ACM	Ctrl	ACM
CD36	29192,3	41303,8	95968,5	995057,8	62149,9	18133062,3
Actin	12818881,3	12473414,3	13731232,3	11296635,5	13259668,3	11323904,7

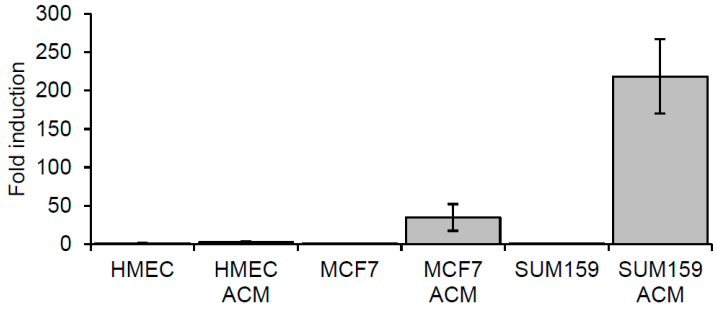


Figure S6. The whole blot showing all the bands with all molecular weight markers and western blot quantification.

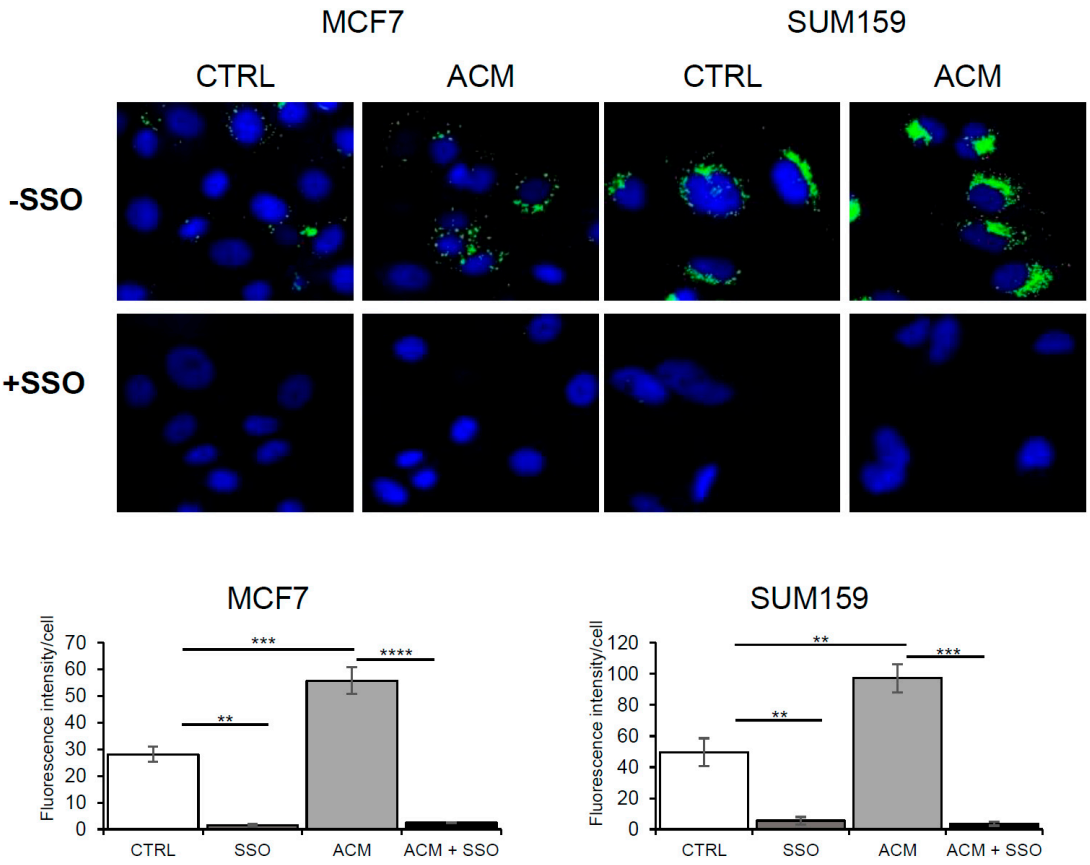


Figure S7. CD36 inhibition reduces adipocyte-induced fatty acid uptake.

Table S1. Characteristics of the women.

Patient	Age	Height (m)	Weight (kg)	BMI (kg/m²)	Mammary Density	Menopausal Status
Patient 1	35	1.62	88	33.5	Low D	−
Patient 2	43	1.6	71	27.7	Low D	−
Patient 3	54	1.55	53	22.1	Low D	+
Patient 4	61	1.58	65	26	High D	+
Patient 5	56	1.6	76	30	Low D	+
Patient 6	62	1.63	70	26.3	Low D	+
Patient 7	16	1.63	63	23.7	High D	−
Patient 8	50	1.72	78	26.4	High D	+
Patient 9	18	1.75	105	34.3	Low D	−
Patient 10	60	1.62	91	34.7	Low D	+
Patient 11	51	1.65	72	26.4	High D	+
Patient 12	51	1.72	78	26.4	Low D	+
Patient 13	55	1.63	80	30.1	High D	+
Patient 14	17	1.7	80	27.7	High D	−
Patient 15	18	1.68	83	30	Low D	−
Patient 16	44	1.77	71	22.7	High D	−

Table S2. list of primers.

Gene	Forward	Reverse
D36	TGGTACAGATGCAGCCTCAT	AGGCCTTGGATGGAAGAACA
FABP4	GGGCCAGGAATTTGACGAAG	ACTTCAGTCCAGGTCAACGT
FABP5	GCTGAACCAATGCACCATCT	AGGAGTGGGAATAGCTTTGCG
PPARγ	TTGCAGTGGGGATGTCTCAT	TTTCCTGTCAAGATCGCCCT
SLC27A2	ACCACAGGTCTTCCAAAAGCA	AGTCCGCAAGGCAAGAGTAG
VLDLR	GAATGTGAGGATGGCAGCTG	CAGTCCTGCTCCTGGTTACA
βActine	GGACTTCG AGCAAGAGATGG	AGCACTGTGTTGGCGTACAG
36B4	GGACTTCG AGCAAGAGATGG	AGCACTGTGTTGGCGTACAG