DATA IN BRIEF

Data of Figure 1

Food intake(g/2d/mouse)	ND	HFD	HFD+ND	HFD+IF
	10.89	11.45	8.18	8.05
	9.82	12.27	10.91	9.00
	10.91	10.45	9.73	8.91
	10.91	9.82	13.35	8.73

liverweight (g)	ND	HFD	HFD+ND	HFD+IF
	1.13	1.29	1.12	1.17
	1.10	1.09	1.28	1.01
	1.00	1.07	1.20	0.83
	0.97	1.35	1.25	1.00
	1.02	1.42	1.07	1.01
	0.89	1.20	1.04	0.96

bodyweight (g)	ND	HFD	HFD+ND	HFD+IF
	19.71	21.77	22.68	20.95
	20.17	21.43	22.52	21.85
	25.89	22.07	19.88	21.38
	19.58	21.84	22.53	22.61
	22.39	22.58	21.41	21.62
8w	21.62	22.07	22.33	21.76
	28.40	29.70	30.50	31.50
	27.20	29.30	29.30	30.10
	26.80	31.90	32.50	30.40
	28.60	33.50	32.80	30.10
	27.90	31.30	28.70	29.20
19w	28.00	31.60	27.10	29.60
	31.00	38.00	31.90	31.80
	32.90	34.20	28.00	27.60
	28.90	43.10	30.10	31.90
	31.10	34.30	28.70	30.80
	31.80	34.30	29.90	32.00
31w	30.10	39.60	31.10	30.40

Red oil O area (%)	ND	HFD	HFD+ND	HFD+IF

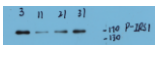
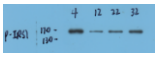
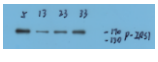
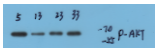
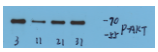
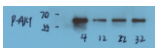
	7.58	23.55	17.86	13.77
	5.37	27.03	14.80	10.85
	6.33	26.69	16.31	9.63

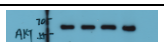
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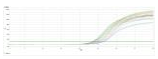
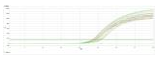
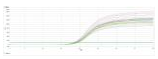
	ND	HFD	HFD-ND	HFD- IF
FBS (mmol/L)	4.30	9.30	7.00	6.80
	6.70	7.90	7.90	5.60
	5.50	9.30	8.40	7.30
	5.50	10.30	8.10	4.80
	6.80	9.40	7.70	6.80
	7.10	9.80	9.10	5.90

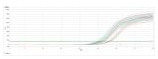
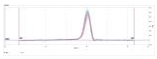
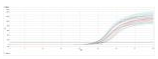
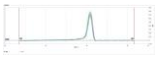
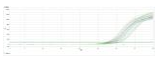
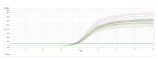
	ND	HFD	HFD-ND	HFD- IF
FINS (mU/L)	22.39	28.85	27.74	23.65
	17.82	35.12	28.78	25.43
	25.68	32.74	29.18	16.66
	22.27	28.30	26.02	19.05
	20.20	31.35	26.48	20.89
	18.61	27.17	27.63	21.92

	ND	HFD	HFD-ND	HFD- IF
HOMA-IR index	4.28	11.92	8.63	7.15
	5.31	12.33	10.11	6.33
	6.28	13.53	10.90	5.40
	5.44	12.95	9.37	4.06
	6.10	13.10	9.06	6.31
	5.87	13.66	11.17	5.75

protein expression	ND	HFD	HFD-ND	HFD- IF
P-IRS/IRS	1.10	0.26	0.50	0.66
	1.00	0.17	0.37	0.56
	0.90	0.22	0.34	0.52
P-AKT/AKT	1.09	0.16	0.42	0.72
	0.89	0.20	0.39	0.64
	1.01	0.14	0.25	0.58
				
				
				

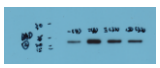
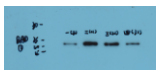
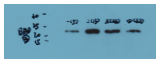
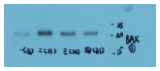
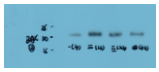
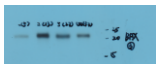
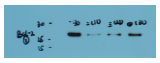
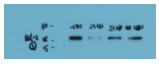
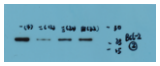
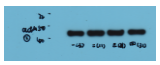
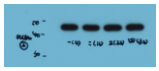
mRNA expression	CON	HF	HFCON	IF
SREBP1C	0.13	0.91	0.72	0.45
	0.18	1.03	0.77	0.31
	0.12	1.07	0.64	0.33
FAS	0.16	0.99	0.51	0.50
	0.23	0.98	0.62	0.42
	0.15	1.03	0.71	0.47
		SREBP1C		
		FAS		
		GAPDH		

mRNA expression	CON	HF	HFCON	IF
CPT1	1.00	0.21	0.52	0.78
	0.84	0.16	0.57	0.50
	1.16	0.14	0.48	0.60
CD36	0.24	1.09	0.64	0.60
	0.17	0.96	0.68	0.41
	0.14	0.95	0.73	0.46
ACC	0.13	1.06	0.40	0.33
	0.09	0.82	0.57	0.25
	0.08	1.12	0.54	0.37
		CPT1		
		CD36		
		ACC		
		GAPDH		

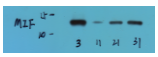
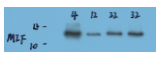
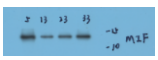
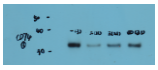
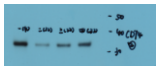
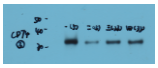
Data of Figure 3

tunel+ cell (%)	ND	HFD	HFD-ND	HFD-IF
	11.86	55.79	34.01	23.75
	6.59	62.44	47.15	12.26
	9.66	42.92	31.25	13.95

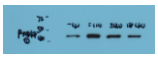
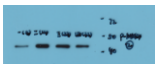
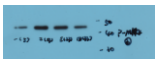
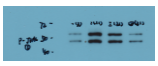
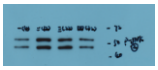
protein expression	ND	HFD	HFD-ND	HFD-IF

BAD	0.22	0.89	0.71	0.32
	0.32	1.06	0.67	0.48
	0.30	1.04	0.80	0.47
BAX	0.25	0.95	0.56	0.41
	0.25	1.02	0.61	0.38
	0.18	1.04	0.65	0.47
Bcl-2	1.04	0.20	0.33	0.63
	1.00	0.20	0.43	0.49
	0.96	0.12	0.47	0.57
				
				
				
				

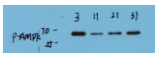
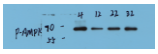
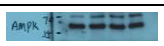
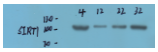
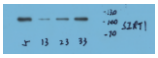
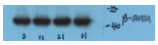
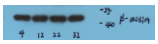
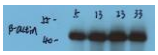
Data of Figure 4

protein expression	ND	HFD	HFD-ND	HFD-IF
MIF	1.10	0.19	0.38	0.61
	0.99	0.18	0.35	0.57
	0.92	0.22	0.36	0.57
CD74	1.00	0.20	0.39	0.59
	1.04	0.20	0.41	0.57
	1.08	0.24	0.49	0.61
				
				
				

protein expression	ND	HFD	HFD-ND	HFD-IF
p-MKK4/MKK4	0.40	0.99	0.84	0.53
	0.29	0.98	0.84	0.59
	0.32	1.03	0.78	0.52
p-JNK54/JNK	0.17	0.99	0.81	0.20
	0.26	0.91	0.62	0.35
	0.14	1.10	0.79	0.52
p-JNK46/JNK	0.23	0.92	0.77	0.27

	0.27	0.88	0.68	0.36
	0.13	1.20	0.79	0.49
				
				
				
				

Data of Figure 5

protein expression	ND	HFD	HFD-ND	HFD-IF
p-AMPK/AMPK	1.02	0.19	0.42	0.68
	0.85	0.21	0.41	0.61
	1.14	0.26	0.49	0.78
SIRT1	1.03	0.28	0.49	0.75
	1.03	0.24	0.47	0.85
	0.95	0.22	0.39	0.71
				
				
				
				

protein expression	ND	HFD	HFD-ND	HFD-IF
P62	0.39	1.05	0.75	0.58
	0.25	0.97	0.77	0.53
	0.22	0.97	0.68	0.39
p-ULK1/ULK	0.99	0.12	0.53	0.93
	0.71	0.08	0.28	0.53
	1.30	0.12	0.29	0.53
LC3II/I	0.85	0.14	0.31	0.52
	1.03	0.12	0.31	0.53
	1.11	0.14	0.32	0.48
	