Supplementary Tables

Table S1. Primers utilized for RT-PCR analyses.

Genes	Forward primers (5'-3')	Reverse primers (5'-3')
Ern1	cctcccagatcccaatgatgg	caaaggccgatgacaaagtct
Fabp4	tcaccatcccgtcagagagtactt	acattccaccaccagcttgtca
Gapdh	tgaccttgcccacgccttg	catcaccatcttccaggagcg
Ormdl3	ccaaccttatccacaacctgg	gaccccgtagtccatctgc
Ssr1	gaacccacagatttggcagaa	gaggcatctagcgattcaacaat
Xbp1	ggctgtctggccttagaaga	ctgtcaaatgaccctccctg
Xbp1s	gagtccgcagcaggtg	gtgtcagagtccatggga
Xbp1u	gactatgtgcacctctgcag	ctgggagttcctccagacta

All primers utilized for RT-PCR analyses in this study are shown.

Table S2. Antibodies utilized for Western blotting.

	Vender	Clone (for mAb)	Conjugated
Primary antibodies			
FABP4	Cell Signaling Technology	D25B3	-
GAPDH	Cell Signaling Technology	D16H11	-
GSTA4	Abnova	-	-
Secondary antibodies			
Goat anti-rabbit	Cell Signaling Technology	-	Horseradish peroxidase

All primary and secondary antibodies utilized for Western blotting in this study are shown.

Supplementary Figures

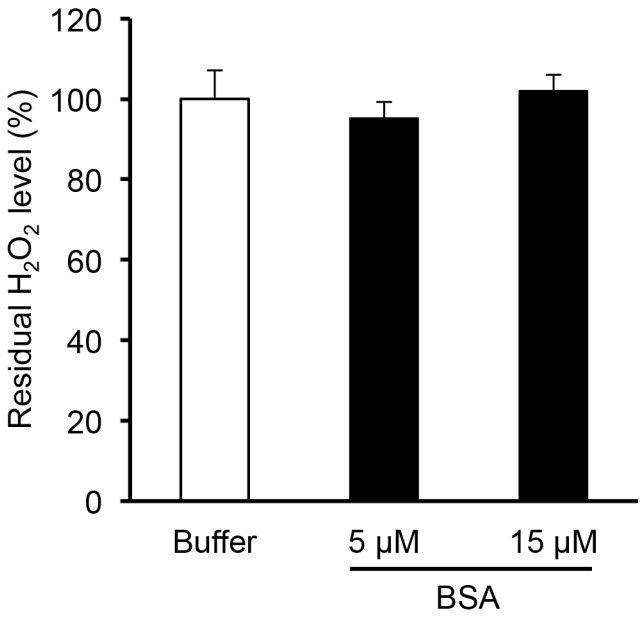

Figure S1. No significant reduction of H_2O_2 by BSA.

5 or 15 μM of fatty acid-free BSA were incubated with H_2O_2, and then, the residual H_2O_2 level was measured. The relative H_2O_2 level in each sample against the negative control (buffer alone) was calculated. Data represent mean ± SD (n=3).

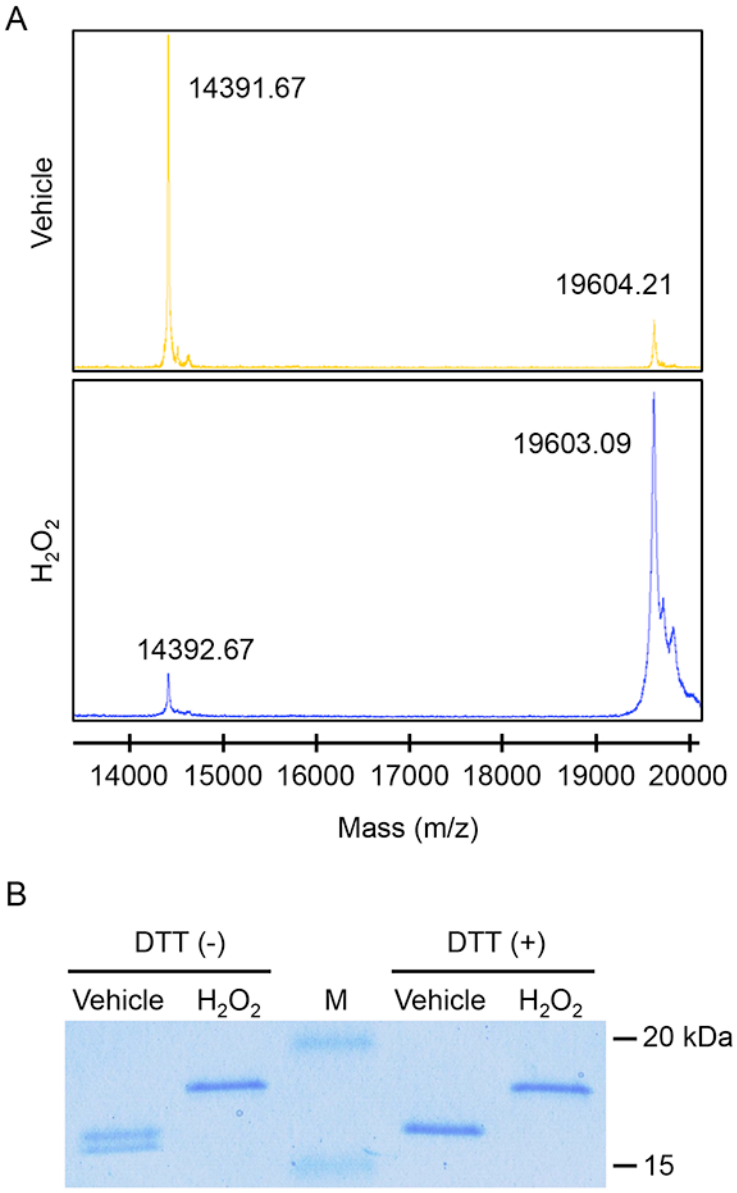

Figure S2. Mass spectral and SDS-PAGE analyses of FABP4 protein treated with H_2O_2.

(**A**) Mass spectral analysis. After incubation of FABP4 with H_2O_2 or vehicle, the samples were analyzed by MALDI-TOF mass spectrometry. (**B**) SDS-PAGE. After incubation of FABP4 with H_2O_2 or vehicle, the samples were subjected to 20% SDS-PAGE with or without 50 mM DTT. After electrophoresis, the gel was visualized by CBB staining.

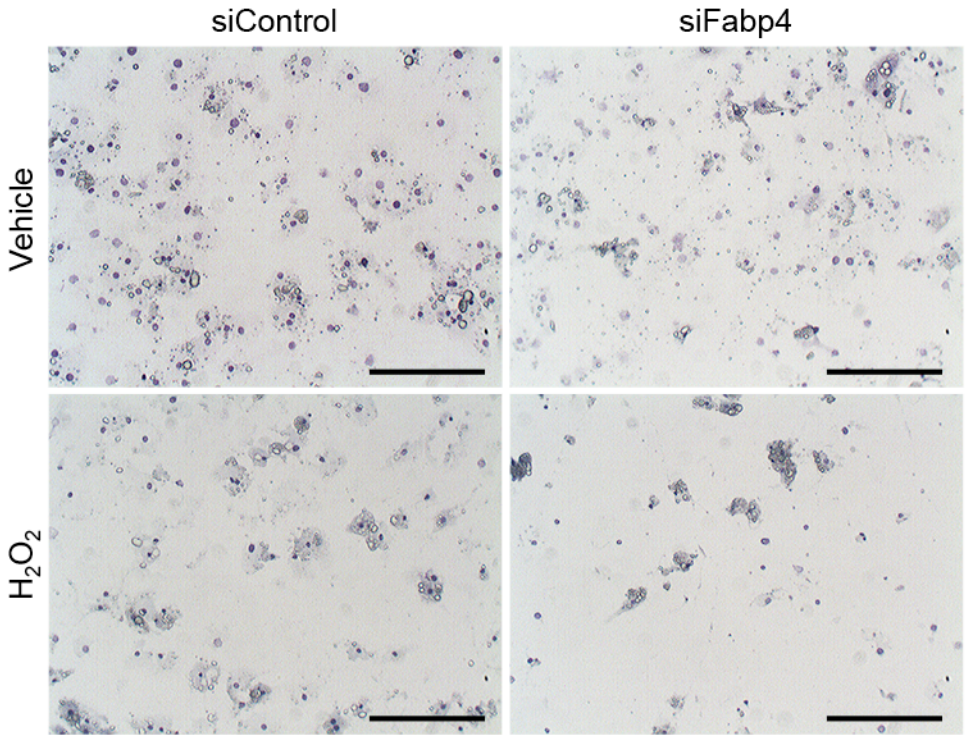

Figure S3. Knockdown of FABP4 in the 3T3-L1 adipocytes reduced the resistance to oxidative stress induced by exposure of H_2O_2.

At 48 h after siRNA transfection, the cells were exposed with 300 mM H_2O_2 or vehicle for 1 h and then stained with 0.5% crystal violet. After washing, the cells were observed by bright field microscopy. A typical image of three independent experiments is shown. Scale bars represent 200 μm.