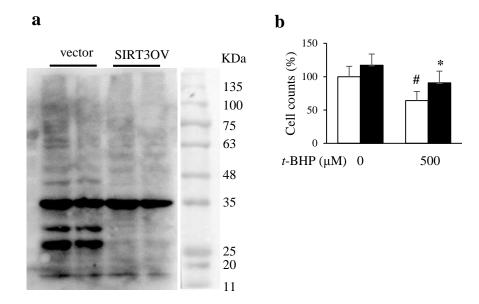
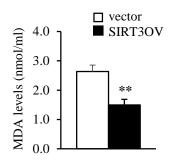
Supplementary Figure S1

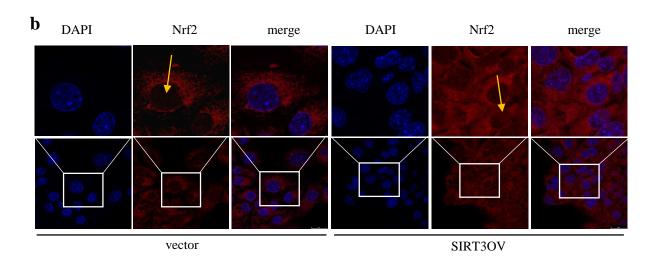


Supplementary Figure S1 (a) SIRT3 overexpression decreased acetylation level of total protein in t-BHP-treated AML12 cells. (b) Cell viability was determined by trypan blue dye exclusion. The number of viable cells were counted by 0.4% trypan blue stain exclusion using a hemocytometer and expressed as a percentage relative to control cells. *p < 0.05, and SIRTOV vs. vector cells, and #p < 0.05 t-BHP-treated vs. ctrl cells.

Supplementary Figure S2

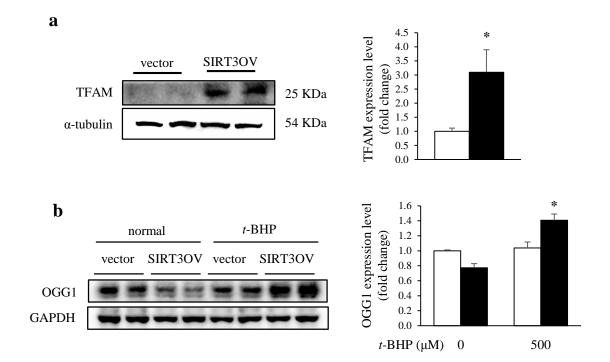






Supplementary Figure S2 (a) Intracellular MDA(malondialdehyde) level. (b) Confocal immunofluorescence image of total and nuclear Nrf2 protein. Nrf2 and nuclei were stained by Texas Red and DAPI, respectively. Scale bar, 10 μ m. **p < 0.01, and SIRT3OV vs. vector cells.

Supplementary Figure S3



Supplementary Figure S3 (a) TFAM protein level in vector and SIRT3 overexpressed AML12 cells treated with 500 μ M *t*-BHP for 12h. (b) OGG1 expression in the vector and SIRT3OV cells under normal and *t*-BHP treated conditions. *p < 0.05, and SIRT3OV vs. vector cells.

Supplementary Table 1 The detailed information of antibodies used in immunoblotting.

Name	Cat.No.	Company
p-AMPK	SC-33524	Santa Cruz
AMPK	SC-25792	Santa Cruz
PGC1α	AB54481	Abcam
Tom20	SC-17764	Santa Cruz
Drp1	#8570	CST
MFN1	SC-50330	Santa Cruz
Nrf2	#12721	CST
KEAP1	#8047	CST
OPA1	SC-30573	Santa Cruz
α-tubulin	SC-8035	Santa Cruz
GAPDH	SC-25778	CST
Ku70	SC-135963	Santa Cruz
Bax	SC-526	Santa Cruz
SOD2	24127-1-AP	Proteintech Group
histone 3	SC-10809	Santa Cruz
OGG1	SC-376935	Santa Cruz
catalase	SC-50508	Santa Cruz
β-actin	SC-1616	Santa Cruz
SIRT3	#5490	CST
Acetylated-Lysine	#9681	CST
Tom20	#42406	CST
MFF	17090-1-AP	Proteintech Group
MID49	16413-1-AP	Proteintech Group
Tom40	18409-1-AP	Proteintech Group
Sam50	20824-1-AP	Proteintech Group
Donkey anti-goat IgG HRP	SC-2020	CST
anti-rabbit IgG HRP	#7074	CST
anti-mouse IgG HRP	#7076	CST