

Full blot images of samples in the Western blot study

Fig.1D

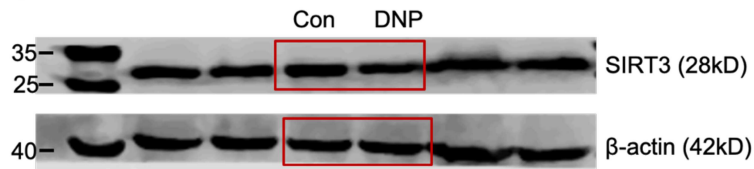


Fig.3A

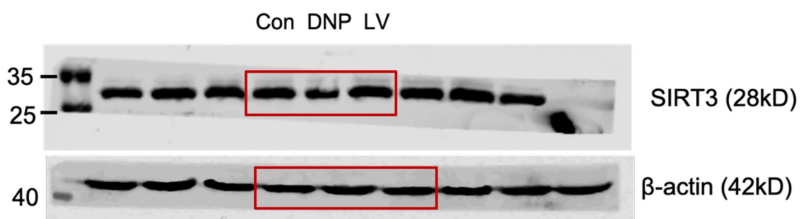


Fig.4A

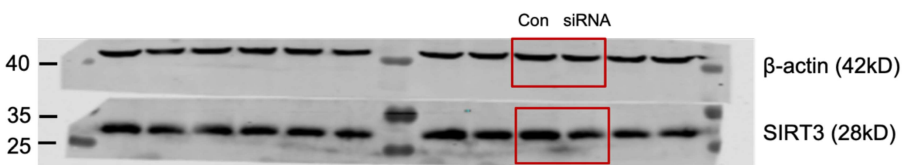


Fig.5A

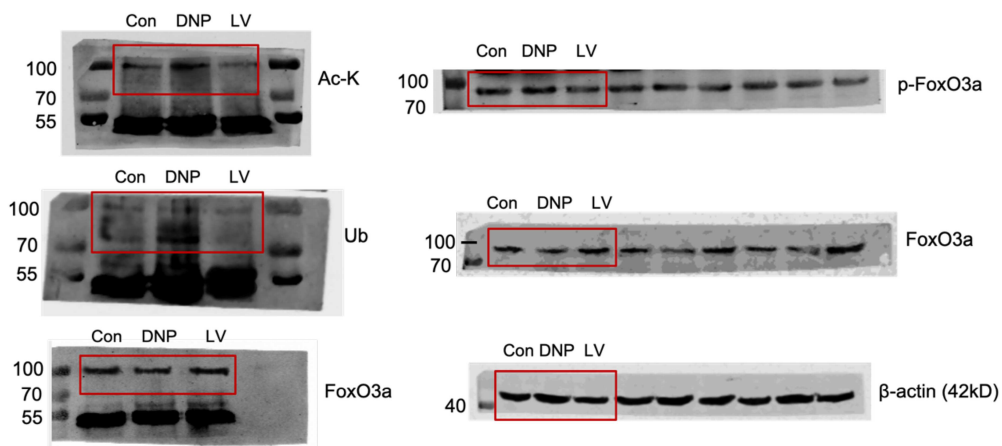


Fig.6A

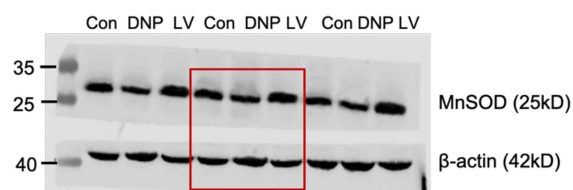


Fig.6C

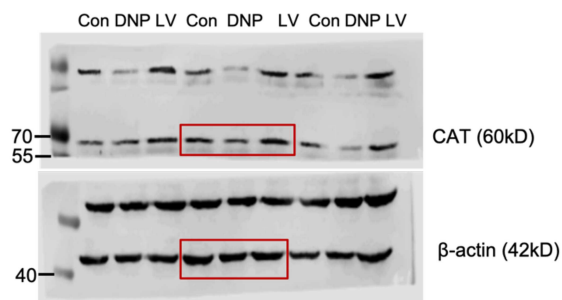


Fig.7A

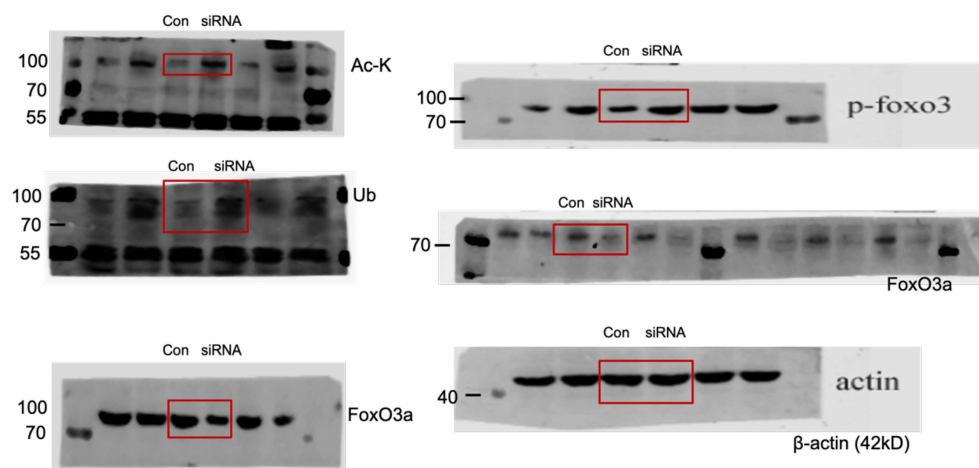


Fig.8A

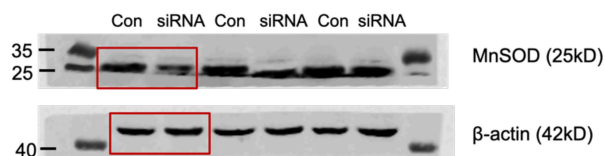
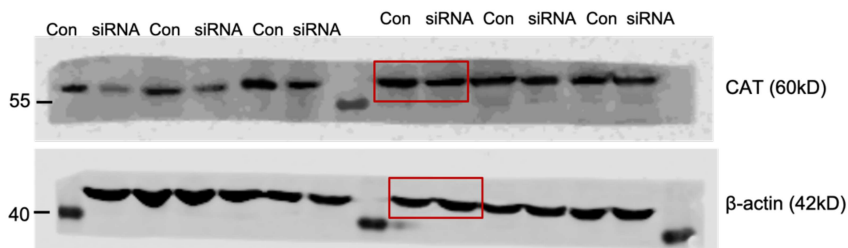
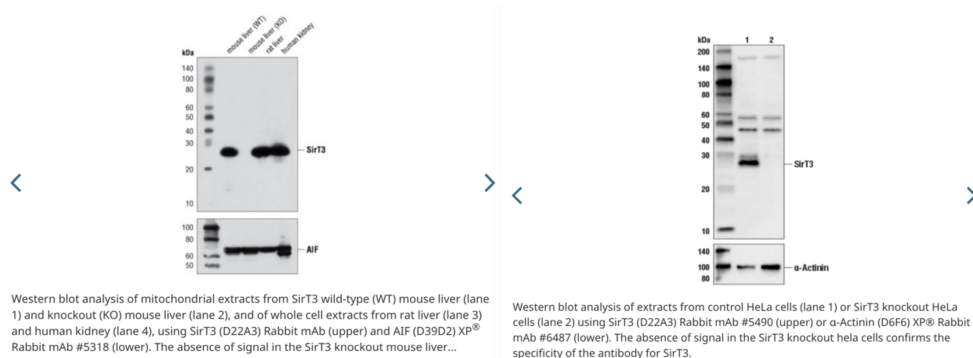


Fig.8C



Evidence demonstrating the specificity of antibody used in Western blot

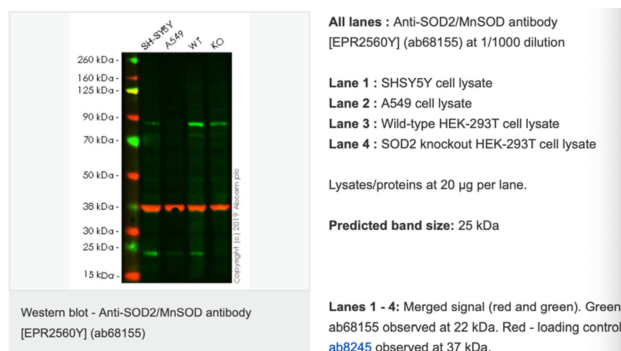
(1) The specificity of anti-SIRT3 antibody (CST, 5490) was validated by the company. Please refer to the manufacturer's description: <https://www.cst-c.com.cn/products/primary-antibodies/sirt3-d22a3-rabbit-mab/5490>



(2) The specificity of anti-Catalase antibody (Abcam, ab209211) was validated by the company. Please refer to the manufacturer's description: <https://www.abcam.cn/catalase-antibody-epr20198-ab209211.html>



(3) The specificity of anti-SOD2/MnSOD antibody (Abcam, ab68155) was validated by the company. Please refer to the manufacturer's description: <https://www.abcam.cn/sod2mnsod-antibody-epr2560y-ab68155.html>



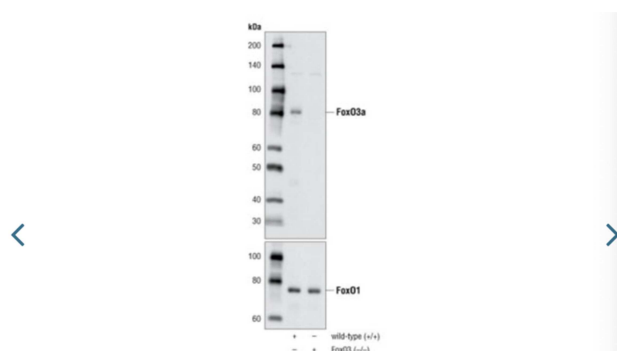
(4) The specificity of anti-acetylated lysine antibody (CST, 9441) was validated by the company. Please refer to the manufacturer's description: <https://www.cst.com.cn/products/primary-antibodies/acetylated-lysine-antibody/9441>



Western blot analysis of extracts from NIH/3T3 cells, untreated or sodium butyrate-treated (5 mM for 24 hours), showing an increase in histone acetylation using Acetylated-Lysine Antibody.

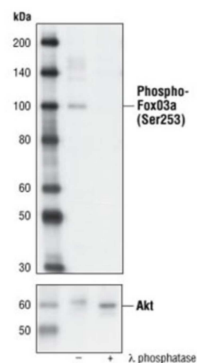
Specificity and sensitivity of Acetylated-Lysine Antibody assayed on acetylated BSA (4; 1; 0.2; 0.04 or 0.008 ng in lanes 1-5) or nonacetylated BSA (25,000; 5,000; 1,000 or 200 ng in lanes 6-9).

(5) The specificity of anti-FoxO3a antibody (CST, 2497) was validated by the company. Please refer to the manufacturer's description: <https://www.cst.com.cn/products/primary-antibodies/foxo3a-75d8-rabbit-mab/2497>



Western blot analysis of extracts from wild type (+/+) and FoxO3 knock-out (-/-) mouse brain, using FoxO3a (75D8) Rabbit mAb (upper) and FoxO1 (C29H4) Rabbit mAb #2880 (lower). (FoxO3 knock-out (-/-) mouse brain was kindly provided by Dr. Ron DePinho, Dana-Farber Cancer Institute, Boston, MA).

(6) The specificity of anti-phospho-FoxO3a antibody (CST, 9466) was validated by the company. Please refer to the manufacturer's description: <https://www.cst.com.cn/products/primary-antibodies/phospho-foxo3a-ser253-antibody/9466>



Western blot analysis of extracts from PC3 cells, untreated or treated with lambda phosphatase, using Phospho-FoxO3a (Ser253) Antibody (upper) or Akt Antibody #9272 (lower).

(7) The specificity of anti-ubiquitin antibody (Abcam, ab7780) was validated by the company. Please refer to the manufacturer's description: <https://www.abcam.com/ubiquitin-antibody-ab7780.html>

