Sulforaphane induces S-phase arrest and apoptosis via p53-dependent manner in gastric cancer cells

Yuan Wang¹, Huazhang Wu²,*, Nannan Dong¹, Xu Su², Mingxiu Duan¹, Yaqin Wei³, Jun Wei⁴, Gaofeng Liu², Qingjie Peng², & Yunli Zhao¹,*

¹ School of Public Health, Bengbu Medical College, Bengbu, 233030, China
² School of Life Science, Anhui Province Key Laboratory of Translational Cancer Research, Bengbu Medical College, Bengbu, 233030, China
³ School of Clinical Medicine, Bengbu Medical College, Bengbu, 233030, China
⁴ Department of Gastroenterology, the First Affiliated Hospital of Bengbu Medical College, Bengbu, Anhui 233030, P. R. China

* Correspondence Author:
Huazhang Wu, Ph.D, School of Life Science, Anhui Province Key Laboratory of Translational Cancer Research, Bengbu Medical College, Bengbu, 233030, China.
E-mail: whzhang1025@163.com

Yunli Zhao, Ph.D, School of Public Health, Bengbu Medical College, Bengbu, Anhui 233030, P. R. China.
E-mail: yunli201@126.com
The S phase arrest associated proteins p53, p21 and CDK2 associated proteins were examined by western blot analysis after treated with the increased concentration of SFN for 48 h in BGC-823 and MGC-803 cells. Relevant experiment is marked with a red box and lanes have been labeled to match the main text. These data are presented in Figure 5A.
Western blotting (Truncated-length of PVDF membranes but including target proteins) was used to analyze the effect of SFN on the expression of apoptosis-related proteins caspase-3 and Bax in BGC-823 and MGC-803 cells. Relevant experiment is marked with a red box and lanes have been labeled to match the main text. These data are presented in Figure 5B.
Western blotting (Truncated-length of PVDF membranes but including target proteins) was used to analyze the effect of Pifithrin-α on the expression of apoptosis-related proteins caspase-3 and Bax in BGC-823 and MGC-803 cells. Relevant experiment is marked with a red box and lanes have been labeled to match the main text. These data are presented in Figure 5C.