1 Rhein Inhibits Autophagy in Rat Renal Tubular Cells by Regulation of

2 **AMPK/mTOR Signaling**

Yue Tu^{1, 2, 7}, Liubao Gu^{3, 7}, Diping Chen², Wei Wu⁴, Hong Liu⁵, Hao Hu⁶, Yigang Wan⁴ &
Wei Sun¹

¹Department of Nephrology, The Affiliated Hospital of Nanjing University of Chinese 5 Medicine, Nanjing, China; ² Department of Regimens in Chinese Medicine, Second Clinic 6 Medical School, Nanjing University of Chinese Medicine, Nanjng, China; ³Center for 7 8 Diabetes Care, Education and Research, Jiangsu Province Institute of Geriatrics, Nanjing, China; ⁴Department of Traditional Chinese Medicine, Nanjing Drum Tower Hospital, The 9 Affiliated Hospital of Nanjing University Medical School, Nanjing, China; ⁵First Clinic 10 Medical School, Nanjing University of Chinese Medicine, Nanjng, China; ⁶Department of 11 12 Nephrology, Huanggang Hospital of Traditional Chinese Medicine, Huanggang, China.⁷ 13 These authors contributed equally to this work.

14

15 Correspondence and requests for materials should be addressed to or Y.W. (email:

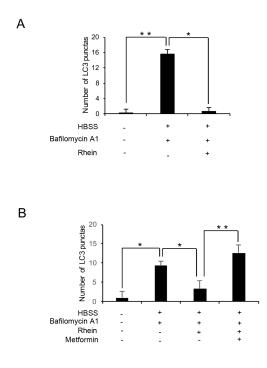
16 wyg68918@sina.com) or W.S. (email: 381968515@qq.com)

17

18 Running title: Rhein Inhibits Autophagy in Renal Tubular Cells

19

20



21

22 Figure S1. Quantification of LC3 punctas. (A) Quantification of LC3 punctas, Related to Figure

- 23 2E. (B) Quantification of LC3 punctas, Related to Figure 4F. Data are expressed as mean \pm SD, *
- 24 P < 0.05, **P < 0.01.