

PTPIP51 regulates mouse cardiac ischemia/reperfusion through mediating the mitochondria-SR junction

Xue Qiao¹, Shi Jia¹, Jingjing Ye¹, Xuan Fang¹, Chenglin Zhang¹, Yangpo Cao¹, Chunling Xu¹, Lifang Zhao¹, Yi Zhu¹, Lu Wang², Ming Zheng^{1*}

- 1) Department of Physiology and Pathophysiology, and 2) Center for Human Disease Genomics, School of Basic Medical Sciences, Health Science Center, Peking University, Beijing 100191, China

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Address Correspondence to:

Ming Zheng, M.D., Ph.D.
Department of Physiology and Pathophysiology
Health Science Center, Peking University
Beijing 100191
China
Tel.: 86-10-8280-2403
Fax: 86-10-8280-2403
E-Mail: zhengm@bjmu.edu.cn

Supplemental Figure Legends

Figure S1. Echocardiography of mouse I/R model and knockdown of PTPIP51 protected cardiomyocytes from H₂O₂ mediated apoptosis. **A**, Representative of M-mode echocardiography of sham or I/R mouse. **B**, Mean data of ejection fraction (EF) and fractional shortening (FS). n=4 pairs of mice. **P*<0.05 versus sham mouse. **C**, TUNEL staining and **D**, Annexin V-PI by flow cytometry in rat neonatal cardiomyocytes transfected with scramble or PTPIP51 shRNA in the presence of H₂O₂ (200 μM, 12 h).

Figure S2. Generation and characteristics of PTPIP51 knockdown mouse model and its cardiac protective effects after I/R. **A**, Schematic view of constructing an AAV9-mediated PTPIP51 shRNA mice model. **B**, M-mode echocardiography of AAV9-sh-Scramble and AAV9-sh-PTPIP51 mice before and after I/R. **C**, TUNEL assay of hearts from indicated mice. n=7–14 frames from four pairs of mice. **P*<0.05 versus sham scramble; #*P*<0.05 versus scramble with I/R injury.



