

Article

C1q/TNF-related protein-9 ameliorates hypoxia-induced pulmonary hypertension by regulating secretion of endothelin-1 and nitric oxide mediated by AMPK in rats

Qiaoyan Jin^{1*}, Hui Su^{2*}, Rui Yang^{1*}, Yanzhen Tan³, Buyong Li³, Wei Yi³, Qianqian Dong⁴, Haifeng Zhang⁴, Wenjuan Xing^{5#}, Xin Sun^{1#}

¹Department of Pediatrics, Xijing Hospital, Fourth Military Medical University, Xi'an, 710032, China

²Department of Geriatrics, Xijing Hospital, Fourth Military Medical University, Xi'an, 710032, China

³Department of Cardiovascular Surgery, Xijing Hospital, Fourth Military Medical University, Xi'an, 710032, China

⁴Teaching Experiment Center, Fourth Military Medical University, Xi'an, 710032, China

⁵School of Aerospace Medicine, Fourth Military Medical University, Xi'an, 710032, China

Running head: CTRP9 ameliorates pulmonary hypertension

*These authors contributed equally to this study.

#Correspondence to:

X. Sun, M.D., Ph. D.

Department of Pediatrics, Xijing Hospital

Fourth Military Medical University

127 Changlexi Road

Xi'an, 710032, China

E-mail: sunxin6@fmmu.edu.cn

Tel: 0086-29-84775395

Fax: 0086-29-84775395

[OR](#)

W. Xing, M.D., Ph. D.

School of Aerospace medicine

Fourth Military Medical University

169 Changlexi Road

Xi'an, 710032, China

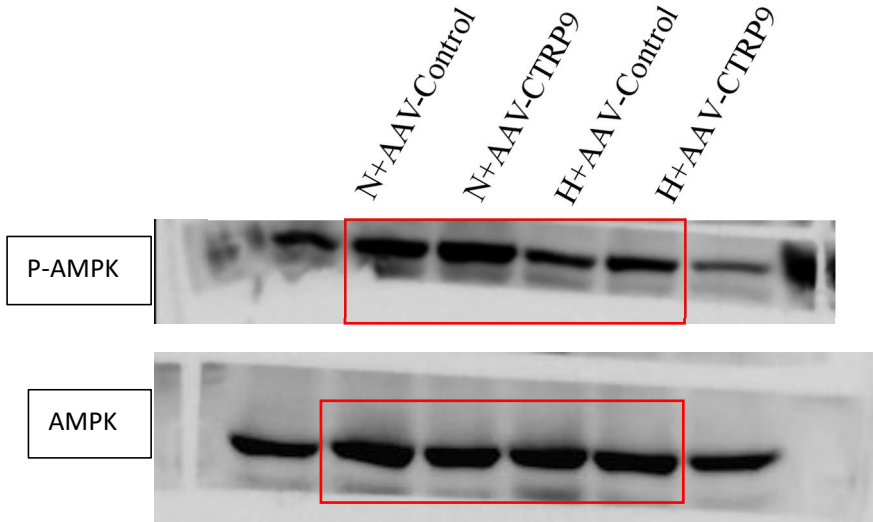
E-mail: xwjfmmu@126.com

Tel: 0086-29-84776423

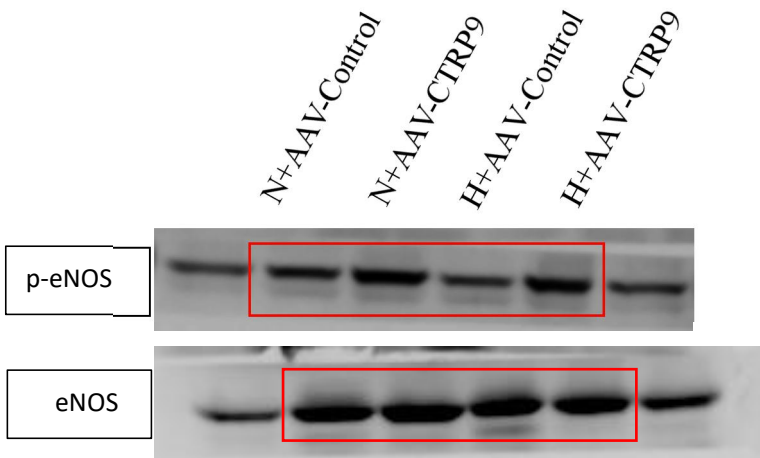
Fax: 0086-29-84776423

Figure1

A: (the blots cropped from different gels)



B: (the blots cropped from different gels)



C: (the blots cropped from different gels)

N+-AAV-Control
N+-AAV-CTRP9
H+-AAV-Control
H+-AAV-CTRP9

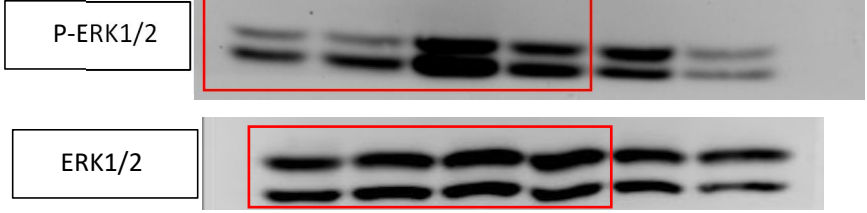
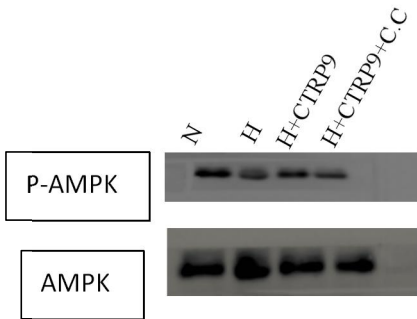
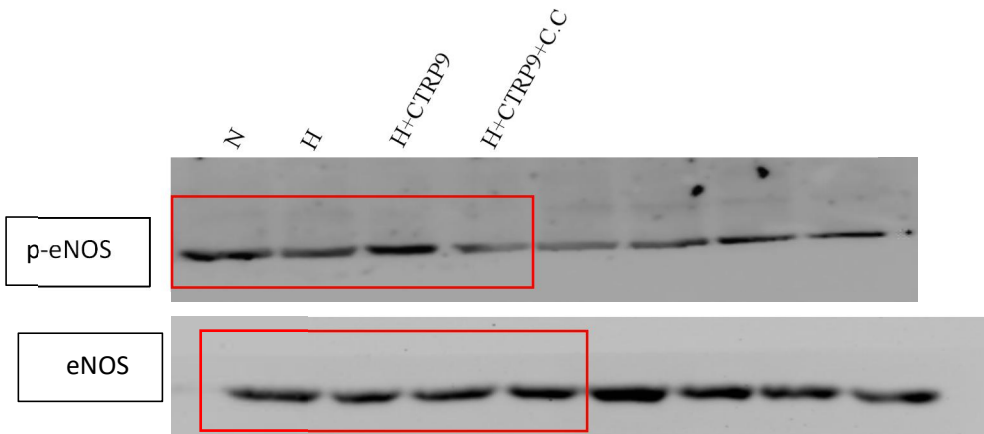


Figure 2

A: (the blots cropped from different part of the same gel)



B: (the blots cropped from different gels)



C: (the blots cropped from different gels)

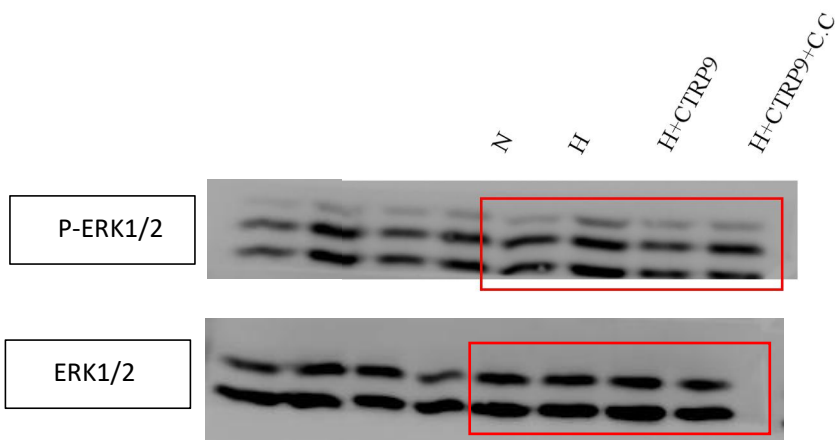
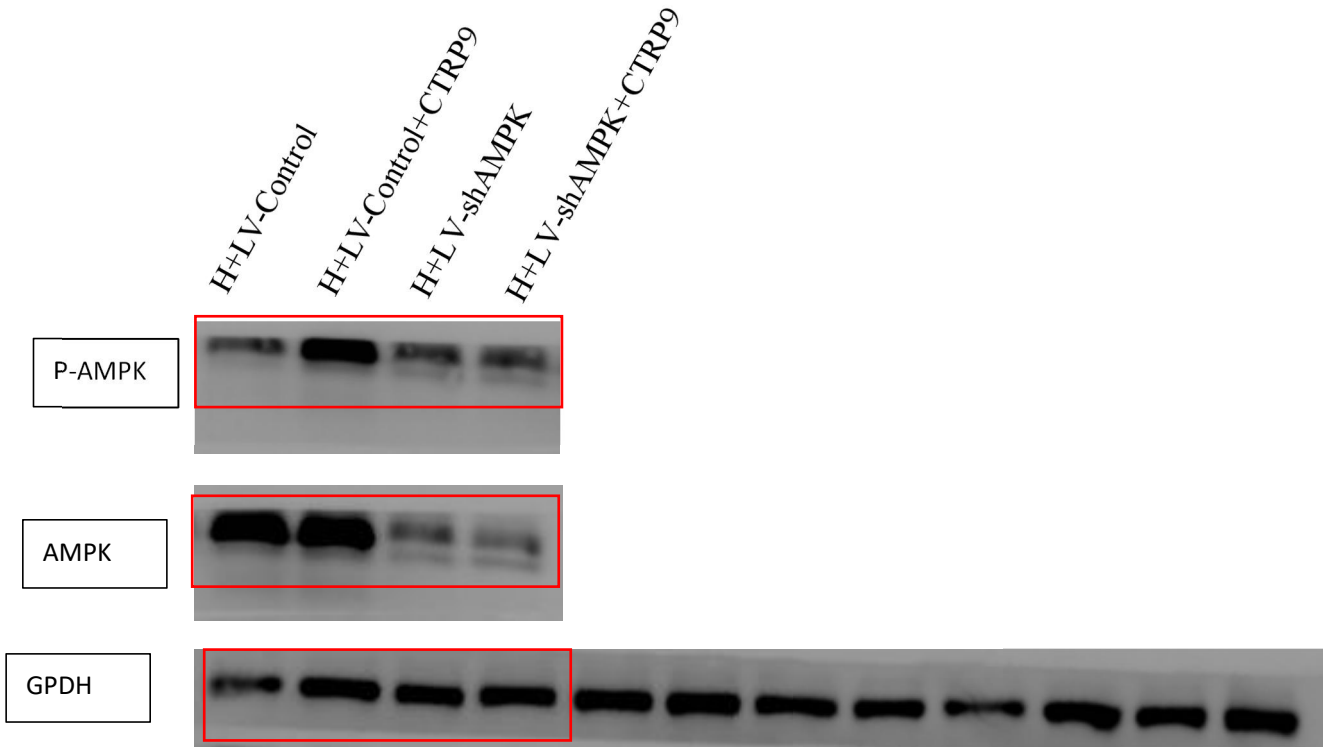
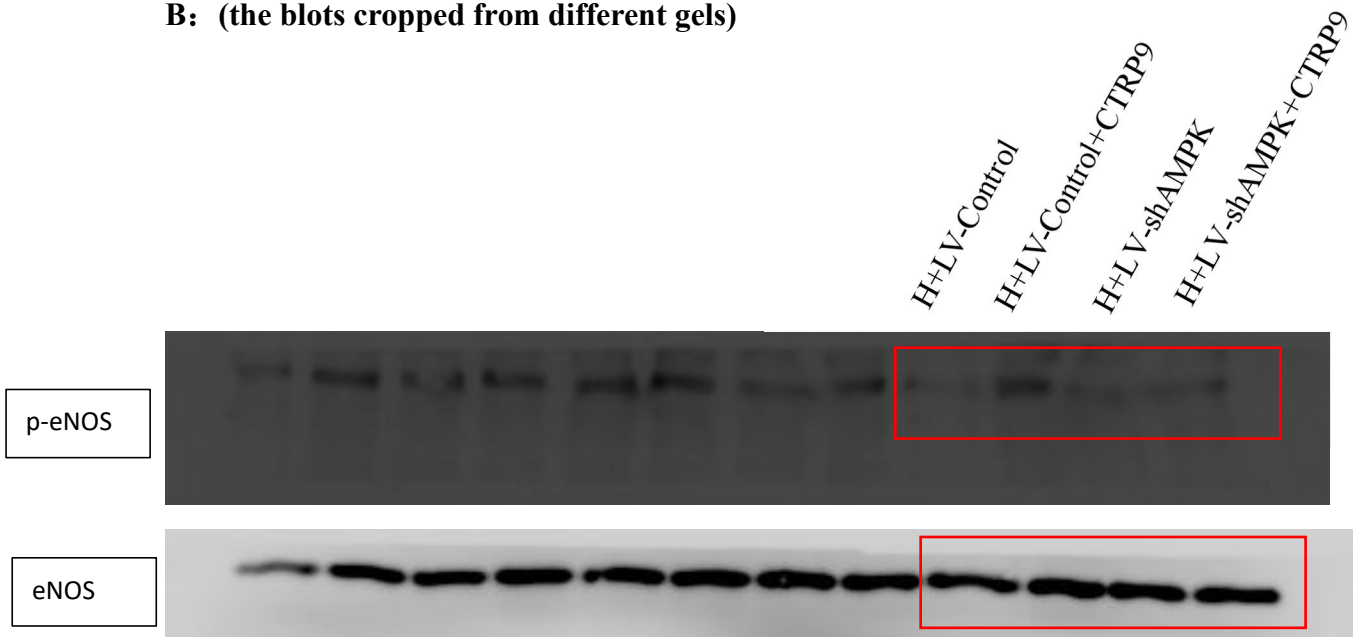


Figure 3

A: (the blots cropped from different part of the same gel)



B: (the blots cropped from different gels)



C: (the blots cropped from different gels)

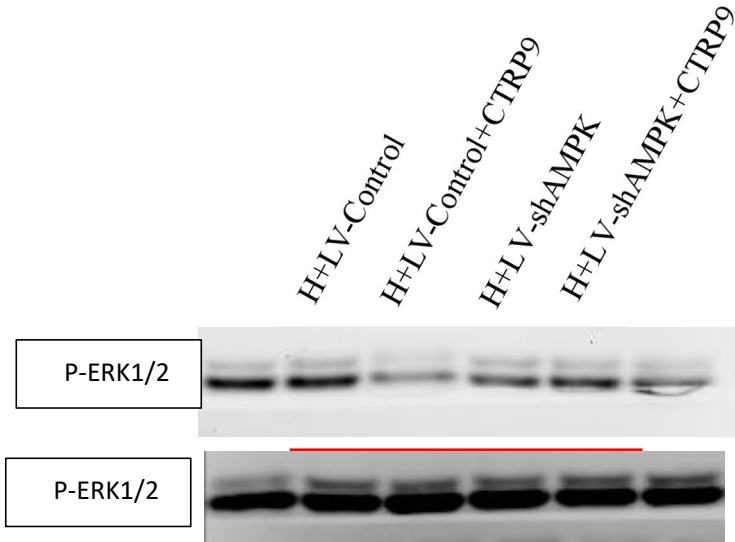


Figure 4

A: The expression of GFP in lung tissues from rat with AAV-6 intra-tracheal instillation (100×)

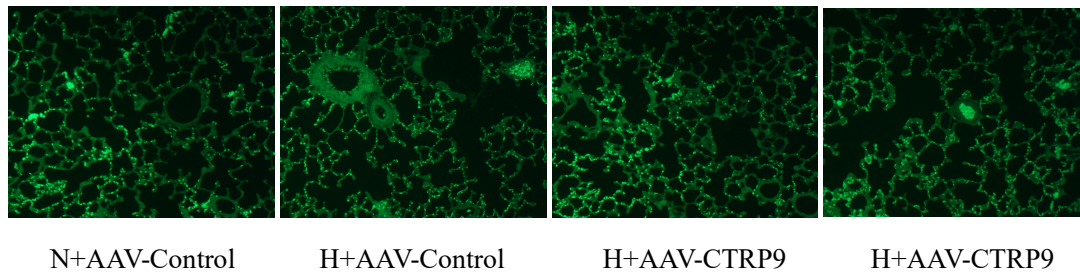


Figure 5

A: The efficacy of sh-AMPK lentivirus on AMPK expression in PMVECs

