

microRNA-9-5p alleviates blood-brain barrier damage and neuroinflammation after traumatic brain injury

Jingchuan Wu^{1,2}, Junchi He², Xiaocui Tian³, Yuetao Luo⁵, Jianjun Zhong², Hongrong Zhang², Hui Li², Bo Cen¹, Tao Jiang^{4*}, Xiaochuan Sun^{2*}

1 Department of Neurosurgery, General Hospital of The YangTze River Shipping, Wuhan Brain Hospital, Wuhan, Hubei, 430014, China

2 Department of Neurosurgery, the First Affiliated Hospital of Chongqing Medical University, Chongqing 400016, China

3 College of Pharmacy, Chongqing Key Laboratory of Biochemistry and Molecular Pharmacology, Chongqing Medical University, District of Yuzhong, Chongqing 400016, China

4 Department of Neurosurgery, Beijing Tiantan Hospital of Capital Medical University, Beijing 100070, China

5 Department of Clinical Epidemiology and Biostatistics, Children's Hospital of Chongqing Medical University, Chongqing 400016, China

* Correspondence to:

Tao Jiang (zacharytaojiang@163.com), Department of Neurosurgery, Beijing Tiantan Hospital of Capital Medical University, Beijing 100070, China

Xiaochuan Sun (sunxch1445@qq.com), Department of Neurosurgery, the First Affiliated Hospital of Chongqing Medical University, Chongqing 400016, China

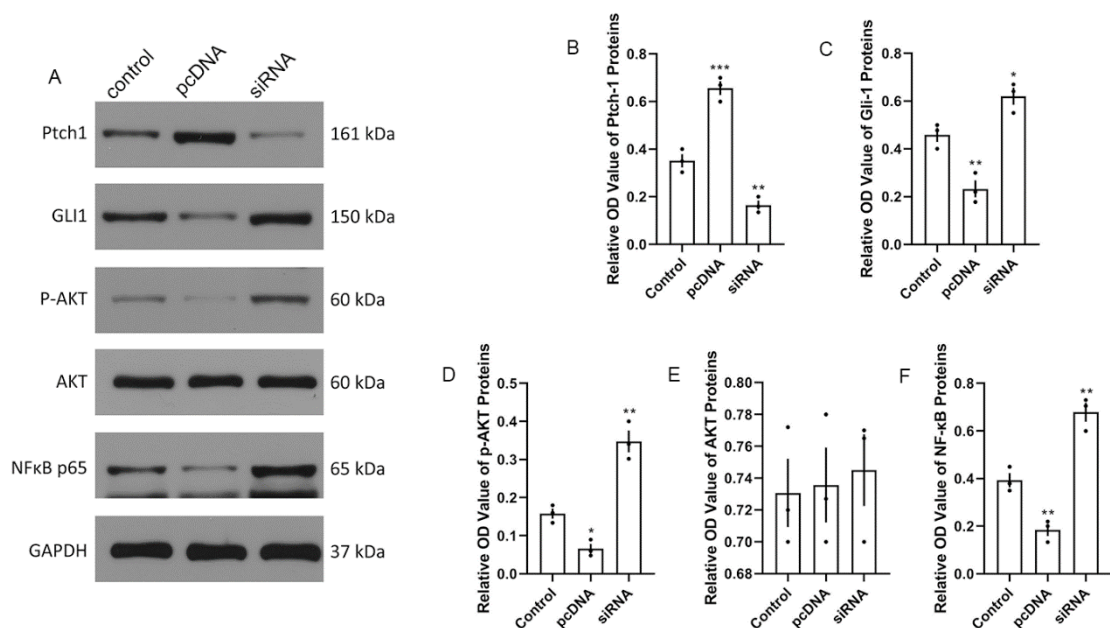


Figure supplement 1. Activation of Hedgehog pathway promoted the expression of p-AKT and NF-κB.

(A) The immunoblotting and quantitative data of (B)Ptch-1 and (C)Gli-1, (D)p-AKT, (E)AKT and (F)NF-κB in BMECs. (n=4/group) (*P<0.05, **P<0.01, ***P<0.001 versus the untreated control group.) (n: number of independent cell culture preparation; control: untreated control group.)