



毒热平注射液对巨噬细胞TIR信号通路的影响

投稿时间: 2009-07-27 责任编辑: 张守宁 [点此下载全文](#)

引用本文: 张艳丽,王宁萍,顾立刚,李澎涛.毒热平注射液对巨噬细胞TIR信号通路的影响[J].中国中药杂志,2010,35(6):741.

DOI: 10.4268/cjmm20100618

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基金项目:宁夏医科大学特殊人才启动项目(OXT200802)

中文摘要:目的:研究毒热平注射液对流感病毒感染的小鼠腹腔巨噬细胞株Ana-1细胞(TIR/TollIL-1 receptors)信号传导通路的影响。方法:用100 TCID₅₀流感病毒亚甲型鼠肺适应株A/FM/1/47(H1N1)感染小鼠腹腔巨噬细胞株Ana-1后换用10.1 mg · L⁻¹含药维持液继续培养,分别于12,24 h弃细胞上清液并收集细胞,提取巨噬细胞RNA,进行实时定量PCR反应(RT-PCR),动态测定毒热平注射液对病毒感染前后巨噬细胞TIR信号传导通路中各信号蛋白:Toll样受体7(TLR7)、髓样分化因子88(MyD88)、IL-1受体相关激酶4(IRAK4)、肿瘤坏死因子相关激酶6 (TRAF6)和核因子κB(NF-κB)mRNA表达水平的影响。结果:毒热平注射液可剂量依赖性地下调病毒感染巨噬细胞TLR7、MyD88、IRAK4、TRAF6、NF-κB mRNA的表达水平。结论:毒热平注射液能通过调节TIR信号传导通路各信号蛋白的活性发挥抗病毒感染作用。

中文关键词:[Ana-1](#) [毒热平注射液](#) [流感病毒](#) [TIR](#) [TLR7](#)

Effect of Dureping injection on TIR signal pathway on Ana-1 cells

Abstract:Objective: To investigate the influence of Dureping injection to the murinal celiac macrophage Ana-1 on TIR signal pathway. Method: Ana-1 cell line was infected by influenza virus FM1 strain and treated with the Dureping injection in different concentrations (10.1 mg · L⁻¹ group) for 12 h and 24 h. Then we collected the cells, extracted mRNA and measured the expressions of TLR7, MyD88, IRAK4, TRAF6 and NF-κB p65 respectively by RT-PCR. Result: Dureping injection down-regulated the expression of TLR7, MyD88, IRAK4, TRAF6 and NF-κB p65 mRNA in Ana-1 cell line infected by influenza virus, in a dose-dependent manner significantly. Conclusion: Dureping injection has an obvious effect against influenza virus FM1 strain by regulating the TIR signal pathway.

keywords:[Ana-1](#) [Dureping injection](#) [influenza virus](#) [TIR](#) [TLR7](#)

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