

论著

siRNA干扰CD73表达抑制人乳腺癌细胞MB-MDA-231与细胞外基质的黏附

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摘要

目的: 探讨CD73对乳腺癌细胞MB-MDA-231与细胞外基质黏附的影响及其机制。方法: ① 构建CD73 siRNA表达载体, 脂质体介导转染MB-MDA-231细胞。② 流式细胞仪检测瞬时转染效率, G418筛选稳定转染克隆。③ 半定量RT-PCR和Western blotting检测转染细胞 CD73 mRNA及蛋白表达。④ 细胞黏附实验检测MB-MDA-231细胞CD73基因表达抑制后与细胞外基质黏附力的改变。结果: ① CD73 siRNA表达载体转染MB-MDA-231可有效抑制CD73 mRNA表达(抑制效率=91.0%), $P < 0.01$ 。② CD73 siRNA表达载体转染MB-MDA-231可有效抑制CD73蛋白表达(抑制效率=79.3%), $P < 0.01$ 。③ 干扰MB-MDA-231细胞CD73表达可显著抑制细胞与细胞外基质的黏附 ($P < 0.01$)。结论: ① CD73 siRNA表达载体可有效干扰MB-MDA-231细胞CD73基因表达。② MB-MDA-231细胞CD73基因表达抑制可显著降低细胞与细胞外基质的黏附。

关键词 [5'-核苷酸酶](#) [腺苷](#) [RNA干扰](#) [细胞粘附](#)

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Transfer of siRNA against CD73 suppresses human breast cancer cell line MB-MDA-231 adhesion to extracellular matrix

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Abstract

AIM: To study the effect of CD73 on breast cancer cell line MB-MDA-231 adhesion to extracellular matrix. METHODS: ① CD73 siRNA plasmid was constructed and transfected into MB-MDA-231 cells by lipofectamine 2000. ② The transfection efficiency was analyzed by flow cytometry using eGFP as a marker gene. Stable transfected MB-MDA-231 cells were selected using G418. ③ RT-PCR and Western blotting analysis of CD73 expression in MB-MDA-231 cells was performed. ④ The effects of CD73 on MB-MDA-231 cells adhesion to extrac...

Key words [5-nucleotidase](#) [Adenosine](#) [RNA interference](#) [Cell adhesion](#)

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