

中国肿瘤生物治疗杂志

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乙酰肝素酶对卵巢癌细胞侵袭和黏附的影响 点此下载全文

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摘要:

目的: 探讨乙酰肝素酶(heparanase,HPSE)在卵巢癌A2780细胞侵袭、转移中的作用。 方法: 构建携HPSE基因真核表达载体pcDNA3.1-HPSE,脂质体法将pcDNA3.1-HPSE和对照pcDNA3.1质粒转染至A2780细胞,G418筛选得稳定细胞株pcDNA3.1-HPSE-A2780和pcDNA3.1-A2780。MTT法和集落形成实验检测转染后A2780细胞的增殖;Matrigel侵袭、 Transwell 小室和黏附实验检测转染后A2780细胞的侵袭、迁移和黏附能力。 结果: 成功构建pcDNA3.1-HPSE载体,并转染入A2780细胞。pcDNA3.1-HPSE转染不影响A2780细胞的增殖(P >0.05),也不影响A2780细胞的迁移能力(P >0.05)。pcDNA3.1-HPSE转染促进A2780细胞的侵袭(0.477±0.024 vs 0.250±0.081, P =0.003),降低其黏附能力(0.728±0.089 vs 0 518±0.080, P = 0.002)。 结论: HPSE通过促进肿瘤细胞的侵袭和降低黏附,在卵巢上皮癌浸润、转移中发挥重要作用

关键词: 乙酰肝素酶 卵巢癌 侵袭 迁移 黏附

Heparanase promotes invasion and adhesion of ovarian carcinoma cells

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Abstract:

Objective: To explore the roles of heparanase (HPSE) in the invasion and metastasis of human ovarian carcinoma A2780 cells. Methods: pcDNA3.1-HPSE eukaryotic expression vector was constructed. pcDNA3.1-HPSE and empty pcDNA3.1 plasmids were transfected into A2780 cells by Lipofectamine method, and A2780 cells stably expressing pcDNA3.1-HPSE or pcDNA3.1 were selected by G418 (named pcDNA3.1-HPSE-A2780 or pcDNA3.1-A2780 cells). The proliferation of A2780 cells after pcDNA3.1-HPSE transfection was detected by MTT and clone-forming experiment, and the invasion, migration and adhesion capacities of A2780 cells were tested by Matrigel, Transwell and Adhersion assays, respectively. Results: The pcDNA3.1-HPSE vector was successfully constructed and transfected into A2780 cells. pcDNA3.1-HPSE transfection had no effect on proliferation and migration of A2780 cells (all P >0.05). pcDNA3.1-HPSE transfection increased invasion (0.477 \pm 0.024 vs 0.250 \pm 0.081, P =0.003) and inhibited the adhesion of A2780 cells (0.728 \pm 0.089 vs 0.518 \pm 0.080, P =0.002). Conclusion: Heparanase plays important roles in ovarian carcinoma by promoting invasion and inhibiting adhesion of tumor cells.

Keywords: heparanase ovarian carcinoma invasion migration adhesion

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