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基质金属蛋白酶26能促进人低转移肺癌95-C细胞浸润

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Title: Matrix metalloproteinase-26 promotes cell invasion in non-invasive (95-C) lung cancer cells with low metastatic ability

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关键词: 基质金属蛋白酶类; 95-C细胞; 细胞浸润

Keywords: matrix metalloproteinases; 95-C cells; cell invasion

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摘要:
目的 探讨基质金属蛋白酶26 (matrix metalloproteinase 26,MMP-26) 对低转移肺癌95-C细胞浸润能力的影响及机制。**方法** 构建含MMP-26 cDNA的表达质粒PUC57-MMP-26, 转染到MMP-26低表达的95-C细胞, 并筛选稳定表达的含MMP-26 cDNA的细胞, RT-PCR检测MMP-26、MMP-9 mRNA表达, 明胶酶谱分析检测过表达MMP-26对95-C细胞分泌MMP-9的影响, 侵袭试验检测细胞体外侵袭力, 双荧光免疫细胞化学染色检测MMP-26、MMP-9蛋白在细胞内的定位。**结果** 转染含MMP-26 cDNA表达质粒的95-C细胞MMP-26、MMP-9 mRNA表达上调 ($P<0.05$)。明胶酶谱分析显示过表达MMP-26的95-C细胞分泌MMP-9能力、体外侵袭力明显增强 ($P<0.05$)。双荧光免疫细胞化学染色发现MMP-26、MMP-9在细胞内共定位。**结论** MMP-26可以促进肺癌95-C细胞的侵袭力, MMP-26促进侵袭的作用至少部分是通过调节MMP-9表达实现的。

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Abstract:

Objective To determine the effect of matrix metalloproteinase-26 (MMP-26) on cell invasiveness in lung cancer 95-C cells and its possible underlying mechanism. **Methods** A full-length cDNA encoding human MMP-26 was cloned into the eukaryotic expression vector PUC57, and this vector was designated as PUC57-MMP-26. After the vector was transfected into 95-C cells, the stable cells expressing MMP-26 were screened out, then RT-PCR was used to detect the mRNA expression of MMP-26 and MMP-9. The secretion of MMP-9 in the transfected cells was detected by gelatin zymography. *In vitro* invasion was detected by transwell assay and localization of MMP-26 and MMP-9 proteins were determined by double immunofluorescent staining. **Results** Transfection of MMP-26 expressing plasmid PUC57-MMP-26 in 95-C cells led to over-expression of MMP-26 mRNA and MMP-9 mRNA ($P<0.05$), and cell invasiveness in these cells were significantly promoted ($P<0.05$). The results of gelatin zymogram revealed that MMP-26 over-expression enhanced the secretion of MMP-9 ($P<0.05$). Double immunofluorescence staining revealed that MMP-26 and MMP-9 were co-localized in MMP-26-transfected 95-C cells. **Conclusion** MMP-26 is involved in invasion-promoting regulating of lung cancer cells, and it functions, at least in partial, through interaction with MMP-9.

参考文献/References:

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