

论文

EZH2和CTGF在肾透明细胞癌中的表达及其临床意义

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摘要:

目的 探讨EZH2和CTGF基因在肾透明细胞癌中的表达及其临床意义。方法 用逆转录-聚合酶链反应(RT-PCR)和免疫组织化学法分别检测肾透明细胞癌标本(50例)及相应癌旁肾组织中EZH2和CTGF基因在mRNA和蛋白水平的表达。结果 与癌旁组织相比,肾癌组织中EZH2基因在mRNA和蛋白水平表达均升高(P<0.01),而CTGF的表达水平均降低(P<0.01);肾透明细胞癌中EZH2升高和CTGF降低的程度与临床分期相关(P<0.05),与病理分化程度、性别、年龄等的关系无统计学差异(P>0.05)。结论 EZH2和CTGF参与了肾透明细胞癌的发生和发展,EZH2可能成为肾透明细胞癌一个潜在的基因治疗靶点。

关键词: 肾透明细胞癌; 果蝇zeste基因增强子同源物2; 结缔组织生长因子; 逆转录-聚合酶链反应; 免疫组织化学

Expressions of CTGF and EZH2 in renal clear cell carcinoma and their clinical significance

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Abstract:

Objective To investigate expressions of enhancer of zeste homolog 2 (EZH2) and connective tissue growth factor (CTGF) genes in renal clear cell carcinoma and their clinical significances. Methods Expressions of EZH2 and CTGF mRNA and proteins were analyzed in 50 cases of renal clear cell carcinoma and adjacent normal renal tissues by reverse transcription-polymerase chain reaction(RT-PCR) and immunohistochemistry. Results Expression of EZH2 was higher in renal clear cell carcinoma compared with normal renal tissues(P<0.01), and high expression of EZH2 was significantly associated with the clinical stage (P<0.05). On the contrary, expression of CTGF was lower in renal clear cell carcinoma compared with normal renal tissues(P<0.01), and low expression of CTGF was significantly associated with the clinical stage(P<0.05). There was no significant correlation of EZH2 and CTGF expressions with age, gender or pathological differentiation(P>0.05). Conclusions EZH2 and CTGF could play important roles in the development and progression of renal clear cell carcinoma. EZH2 might be used as a potential genetic therapeutic target of renal clear cell carcinoma.

Keywords: Renal clear cell carcinoma; Enhancer of zeste homolog 2; Connective tissue growth factor; Reverse transcription-polymerase chain reaction; Immunohistochemistry

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