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论著

RKIP和E-cadherin在前列腺癌组织中的表达

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摘要

目的:联检Raf激酶抑制蛋白（Raf kinase inhibitor protein, RKIP)、上皮型钙黏蛋白（E-cadherin,E-cad)在人前列腺癌（prostate cancer,PCa)组织中的表达并分析两者之间的相关性。 方法:运用免疫荧光组织化学的方法,检测26例前列腺癌组织和14例良性前列腺增生（benign prostatic hyperplasia,BPH)组织中RKIP和E-cad的表达情况,并探讨其与前列腺癌?plusmn;矸旨丁⒘.俅卜制诘墓叵?分析两者之间的相关性。 结果:RKIP和E-cad在前列腺癌组织中的表达均较前列腺增生组织显著下降；在前列腺癌组织分化不良组（Gleason 8～10分)中的表达均较分化良好组（Gleason 5～7分)明显下降（P<0.05)；在前列腺癌组织无转移组（T2N0M0期以内)中的表达均较侵袭转移组明显下降（P<0.05)；二者在前列腺癌组织中的表达呈正相关(r=0.491, P=0.011)。结论:RKIP和E-cad均是肿瘤转移抑制因子,其表达的下降能促进前列腺癌的转移,抑制前列腺癌的分化,RKIP可通过增加E-cad的表达而抑制前列腺癌的转移。

关键词　前列腺癌；Raf激酶抑制蛋白；上皮型钙黏蛋白；转移；Gleason评分

分类号

Expression of Raf kinase inhibitor protein and E-cadherin in prostate cancer tissues

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Abstract

ObjectiveTo detect the expression of Raf kinase inhibitor protein (RKIP) and epithelial cadherin （E-cadherin) in human prostate cancer tissues, and their correlation. MethodsWe discussed the relationship between RKIP and E-cadherin and the clinical stage and pathological classification of prostate cancer by immunofluorescence histochemistry staining in the test of expression of RKIP in 26 prostate cancer tissues and 14 BPH tissues, and analyzed the correlation between them. ResultsThe expression of RKIP and E-cadherin in prostate cancer tissues was obviously lower than that in the benign prostatic hypertrophy tissues. The expression of RKIP and E-cadherin in the dys-good differentiation group（Gleason 8～10)was significantly lower than that in the good differentiation group（Gleason≤7). The expression of RKIP and E-cadherin in the non-metabasis group（within T2N0M0) was significantly lower than that in the invasion-metabasis group. The expressions of both RKIP and E-cadherin in human prostate cancer tissues were positively correlated. ConclusionRKIP and E-cadherin are metastasis suppressor factors, whose decreased expression can increase the invasive capability of prostate cancer and suppress its differentiation. RKIP can suppress the metastasis of prostate cancer by increasing the E-cadherin expression in prostate cancer.

Key words　prostate cancer　Raf kinase inhibitor protein　E-cadherin　metastasis　Gleason score

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