

非小细胞肺癌中CAR和CD46的表达及临床意义

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Expressions and Clinical Significances of CAR and CD46 in Non-small Cell Lung Cancer

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- 摘要
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摘要 目的研究柯萨奇-腺病毒受体(Coxsackie and adenovirus receptor, CAR)及B组腺病毒受体CD46分子在非小细胞肺癌(Non-small cell lung carcinoma, NSCLC)组织中的表达水平及临床意义。方法免疫组织化学方法检测144例NSCLC组织中CAR、CD46的表达,对两者的表达水平与腺病毒的转染效率以及肺癌发生、发展之间的关系进行分析。结果144例NSCLC组织中, CAR在肺鳞癌和肺腺癌中CAR的阳性表达率分别为77.5% (31/40) 和36.8% (14/38); CD46则分别为58.3% (14/24) 和88.1% (37/42); 不同病理类型NSCLC组织中, CAR和CD46的表达模式明显不同(P<0.05)。此外, CAR表达与NSCLC临床TNM分期密切相关。30例TNM I 期患者中, 13例CAR表达阳性(43.3%), 48例II~III期患者中, 32例CAR表达阳性(66.7%), II~III期患者的CAR阳性表达率明显高于I 期患者(P<0.05)。结论CAR及CD46在NSCLC中的表达水平明显不同, 鳞癌普遍高表达CAR, 腺癌则有CD46的高表达, 提示依赖不同受体的腺病毒对NSCLC的基因转移效率也有所不同; CAR表达水平可能是判断NSCLC预后的有用指标。

关键词: 非小细胞肺癌 柯萨奇-腺病毒受体 CD46 基因治疗

Abstract: Objective To investigate the expressions of coxsackie and adenovirus receptor (CAR) and group B adenovirus receptor (CD46) in human non-small cell lung cancer (NSCLC) and its clinical significance. Methods The expressions of CAR and CD46 were detected by immunohistochemical technique in 144 cases of NSCLC and the relationships were analyzed between the expressions of CAR or CD46 and the transfection efficiency of adenovirus or development of NSCLC. Results In 144 samples from NSCLC patients, the expression rates of CAR in squamous cell carcinoma and adenocarcinoma were 77.5% (31/40) and 36.8% (14/38) and CD46 were 58.3% (14/24) and 88.1% (37/42). There were significant differences between CAR and CD46 expression in the squamous cell carcinoma and adenocarcinoma (P<0.05). Meanwhile, CAR positive rate was 43.3% (13/30) in TNM stage I patients and 66.7% (32/48) in stage II~III patients, (P<0.05). The results showed that CAR expression was closely related to the clinical TNM staging in NSCLC. Conclusion The expression levels and pattern of CAR and CD46 were significantly different in various pathological types of NSCLC. Positive expression of CAR usually in squamous cell carcinoma, while CD46 is in adenocarcinoma, indicated that different receptor-dependent adenovirus might have transfection efficiency in various pathologic types of NSCLC. Expression of CAR protein is also correlated to the malignant degree of NSCLC. CAR might play an important roles in evaluation of prognosis of NSCLC.

Key words: NSCLC Coxsackie and adenovirus receptor CD46 Gene therapy

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