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Beclin-1在非小细胞肺癌中的表达与意义 (PDF) 分享到.

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Title: Expression of Beclin-1 in non-small cell lung cancer and its clinical significance

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关键词: 非小细胞肺癌; 自噬; Beclin-1; 组织芯片

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摘要: 目的 探讨自噬重要调控因子Beclin-1在非小细胞肺癌 (non-small cell lung cancer, NSCLC) 中的表达及其临床意义。 方法 收集150例非小细胞肺癌患者的癌组织及癌旁组织并制成组织芯片, 应用免疫组化的方法检测Beclin-1在肺癌组织及癌旁组织中的表达情况。分析Beclin-1的表达与肺癌不同临床参数之间的关系并对病例进行生存分析。 结果 Beclin-1在肺癌组织的阳性表达率(26.00%)显著低于癌旁组织(82.00%) ($P<0.05$); 肺鳞癌组织中Beclin-1的阳性表达率(34.66%)显著高于肺腺癌(17.34%) ($P<0.05$); Beclin-1的表达率在不同性别、年龄、分化程度、淋巴结转移、远处转移组间无显著差异 ($P>0.05$); Beclin-1阴性表达的非小细胞肺癌患者的生存率显著低于阳性表达的患者 ($P<0.05$)。 结论 Beclin-1可能是一个非小细胞肺癌治疗的新的靶点, 有可能成为非小细胞肺癌病理类型判断的辅助指标和预后评估候选指标之一。

Abstract: Objective To investigate the expression level of an important autophagy-related factor Beclin-1 in non-small cell lung cancer (NSCLC) and its clinical significance. Methods The specimens of carcinoma tissues and their paired para-carcinoma tissues collected from 150 NSCLC patients were made into tissue microarray. Immunohistochemistry (IHC) was applied to detect the

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expression level of Beclin-1 in these specimens. The correlation between the expression level of Beclin-1 and the survive rate of patients with NSCLC was analyzed. Results The positive expression rate of Beclin-1 in the carcinoma tissues (26.00%) was significantly lower than that in the para-carcinoma tissues (82.00%) ($P<0.05$), and the positive expression rate of Beclin-1 in squamous cell carcinoma tissues (34.66%) was significantly higher than that in the adenocarcinoma tissues (17.34%) ($P<0.05$). However, no evidence showed the expression rate of Beclin-1 was correlated with sex, age, degrees of differentiation, lymph node metastasis and distant metastasis ($P>0.05$). The survive rate of the NSCLC patients with negative expression of Beclin-1 was significantly lower than that of the NSCLC patients with positive expression of Beclin-1 ($P<0.05$). Conclusion Beclin-1 may be used as a new target for NSCLC treatment and as a potential indicator for pathological diagnosis and prognostic prediction of NSCLC.

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