

Skp2、p27 在骨肉瘤中的表达及其临床意义

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Expression of Skp2 and p27 in Osteosarcoma and Their Clinical Significance

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摘要

目的 探讨骨肉瘤中Skp2和p27蛋白的表达与患者临床病理和预后的关系以及两种蛋白之间的相关性。方法 用免疫组织化学SP法检测16例骨软骨瘤和48例骨肉瘤组织中Skp2和p27蛋白的表达情况。结果 Skp2蛋白在骨软骨瘤中的表达均为阴性,而在骨肉瘤中的表达阳性率为43.75%(21/48),后者的阳性率显著高于前者(P<0.01)。Skp2蛋白表达与临床分期、肺转移及分化程度显著正相关(P<0.05)。p27蛋白在骨软骨瘤、骨肉瘤中阳性率分别为81.25%(13/16)、47.92%(23/48),两者比较,差异有统计学意义(P<0.05)。p27蛋白表达与临床分期、肺转移及分化程度呈负相关(P<0.05)。Skp2蛋白在骨肉瘤中表达与p27蛋白呈负相关(P<0.05)。结论 Skp2可能通过对细胞周期抑制因子p27蛋白的降解而参与骨肉瘤的发生、发展,联合检测Skp2及p27蛋白的表达对骨肉瘤患者的早期诊断,判定恶性程度及预后具有指导意义。

关键词: 骨肉瘤 Skp2 p27 细胞周期

Abstract: Objective To investigate the expression of Skp2 and p27 and their association with clinical, histologic characteristics in osteosarcoma, the correlation between expression of Skp2 and p27 in osteosarcoma. Methods Skp2 protein and p27 protein were examined by using immunohistochemical SP staining method in 48 cases of osteosarcoma and 16 cases of osteochondroma. Results Negative expression of Skp2 was detected in all osteochondroma. In contrast, it was detected in 43.75%(21/48) of osteosarcoma. Positive expression of Skp2 was detected significantly more frequently in osteosarcoma than that of osteochondroma. Skp2 protein expression in osteosarcoma was positively associated with the clinical stage and differentiation. The positive rate of p27 protein in osteochondroma and osteosarcoma were 81.25%(13/16)、47.92%(23/48), significant difference was found between these two groups. p27 protein expression in osteosarcoma was negatively associated with the clinical stage and differentiation. Skp2 was inversely associated with expression of p27 in osteosarcoma. Conclusion Skp2 expression might play an important role in the development and progression of osteosarcoma via cyclin-dependent kinase inhibitor p27 proteolysis, and the combined examination of Skp2 and p27 expression might be a guide for early diagnosis and a determinant of malignancy and prognosis of osteosarcoma.

Key words: Osteosarcoma Skp2 p27 Cell cycle

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