

大肠腺癌组织中p57kip2蛋白和基因的表达及其与临床病理的关系

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Expression of p57kip2 Protein and p57kip2 mRNA in Human Colorectal Adenocarcinoma and Their Clinicopathological Correlation

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摘要 目的 探讨细胞周期调控抑制因子p57kip2 蛋白和基因在大肠腺癌发生发展中的作用。方法 采用免疫组化技术SP 法,检测p57kip2 蛋白在37 例大肠腺癌和26 例正常大肠黏膜组织中的表达;采用 RT2PCR 技术,检测p57kip2 基因mRNA 在32 例大肠腺癌和癌旁组织中的表达。结果 p57kip2 蛋白阳性表达率在大肠腺癌组织中为40.5%,显著低于正常大肠黏膜组织($\chi^2 = 5.039, P < 0.05$),并与大肠腺癌组织分化程度和淋巴结转移均有关($\chi^2 = 8.914, \chi^2 = 4.416, P < 0.05$);p57kip2 基因mRNA 阳性表达率在大肠腺癌组织中为34.4%,显著低于癌旁大肠黏膜组织($\chi^2 = 4.016, P < 0.05$),并与大肠腺癌组织分化程度、淋巴结转移无关;大肠腺癌组织p57kip2 基因mRNA 表达水平显著低于癌旁组织($P < 0.05$)。结论 p57kip2 蛋白的低表达与大肠腺癌的发生发展有关,p57kip2 基因mRNA 的低表达与大肠腺癌的发生有关,且p57kip2 基因mRNA 的低表达可能是p57kip2 蛋白低表达的原因之一。

关键词: p57kip2 蛋白 p57kip2 基因mRNA 大肠腺癌

Abstract: Objective To investigate the effects of inhibiting factor of cell cycle regulation p57kip2 protein and gene in the genesis and progression of human colorectal adenocarcinoma. Methods The expressions of p57kip2 protein in tumor tissues of 37 patients with colorectal adenocarcinoma and in normal colorectal mucosal tissues of 26 subjects were detected by SP immunohistochemical technique. The expressions of p57kip2 gene mRNA in tumor tissues and adjacent colorectal tissues of 32 patients were detected by RT2 PCR. Results p57kip2 protein positive expression rate in tumor tissues of colorectal adenocarcinoma was 40.5%, which was lower than that in normal colorectal mucosal tissues ($\chi^2 = 5.039, P < 0.05$), p57kip2 protein positive expression correlated significantly with tumor cell differentiation and lymph node metastasis ($\chi^2 = 8.914, \chi^2 = 4.416, P < 0.05$); p57kip2 gene mRNA positive expression rate in tumors of colorectal adenocarcinoma was 34.4%, which was lower than that in adjacent colorectal mucosal tissues ($\chi^2 = 4.016, P < 0.05$), and was not correlate remarkably with tumor cell differentiation, lymph node metastasis; the expression level of p57kip2 gene mRNA in tumor tissue was lower than in adjacent colorectal mucosal tissues ($P < 0.05$). Conclusion The decreased expression of p57kip2 protein may play an important role in the genesis and progression of colorectal adenocarcinoma. The decreased expression of p57kip2 gene mRNA may contribute to the occurrence of colorectal adenocarcinoma. The decreased expression of p57kip2 protein may relate with the decreased expression of the expressions of p57kip2 gene mRNA.

Key words: p57kip2 protein p57kip2 gene mRNA Human colorectal adenocarcinoma

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