

## 结直肠癌中survivin、caspase-3、p21<sup>WAF1</sup>的蛋白表达及其意义

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### Expression of survivin, caspase-3 and p-1<sup>WAF1</sup> Proteins in Colorectal Ccarcinoma and Their

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**摘要** 目的 探讨结直肠癌中survivin、caspase-3和p21<sup>WAF1</sup>的蛋白表达与临床病理参数的联系以及survivin与caspase-3、p21<sup>WAF1</sup>蛋白表达之间的关系。方法 采用免疫组织化学SP方法检测15例正常结肠粘膜和62例结肠腺癌标本中survivin、caspase-3和p21<sup>WAF1</sup>的蛋白表达。结果 结直肠腺癌与正常结肠粘膜比较,survivin、caspase-3和p21<sup>WAF1</sup>的蛋白表达均有显著性(P<0.05)。survivin和caspase-3的蛋白表达与淋巴结转移无明显相关(P>0.05);而与分化程度均显著相关(P<0.05)。survivin蛋白与Dukes分期相关(P<0.05);但caspase-3的蛋白表达与Dukes分期无关(P>0.05)。p21<sup>WAF1</sup>蛋白表达与分化程度、淋巴结转移和Dukes分期均显著相关(P<0.05)。survivin蛋白分别与caspase-3、p21<sup>WAF1</sup>蛋白表达呈显著负相关(P<0.01)。结论 survivin、caspase-3和p21<sup>WAF1</sup>蛋白在结直肠癌的发生和进展中都起着重要的作用。p21<sup>WAF1</sup>基因与结直肠癌的恶性进展显著相关,此结论鲜见报道。

**关键词:** 结直肠癌 survivin caspase-3 p21<sup>WAF1</sup> 免疫组织化学

**Abstract:** Objective To investigate the expression of survivin, caspase-3 and p21<sup>WAF1</sup> proteins in colorectal carcinoma and their relationship between their expression and clinical pathology parameter, and correlation between expression of survivin and caspase-3, p21<sup>WAF1</sup> protein expression respectively. Methods SP immunohistochemical method was used to detect expressions of survivin, caspase-3 and p21<sup>WAF1</sup> proteins in 15 normal colorectal mucosa and 62 colorectal carcinoma. For colorectal carcinoma compared with normal colorectal mucosa, there was significant differences of survivin, caspase-3 and p21<sup>WAF1</sup> protein expression (P < 0.05). No correlation was observed between survivin, caspase-3 protein expression and lymph node metastasis (P > 0.05), but survivin, caspase-3 protein expression were both correlated with cell differentiation degree (P < 0.05). Positive rates of survivin protein was 44.44% (16/36) in A and B of Dukes phase, which lower than positive rates (64.52%) of survivin protein in C and D of Dukes phase (P < 0.05). No correlation was observed between caspase-3 protein expression and Dukes phase (P > 0.05). There was significant differences between p21<sup>WAF1</sup> protein expression and cell differentiation degree, lymph node metastasis, Dukes phase (P < 0.05). A highly negative correlation was present between survivin and caspase-3, p21<sup>WAF1</sup> protein expression respectively (P < 0.01). Conclusion survivin, caspase-3 and p21<sup>WAF1</sup> genes play an important role to formation and progression of colorectal carcinoma. It is rarely reported on relationship between p21<sup>WAF1</sup> and the malignant progression of colorectal carcinoma.

**Key words:** Colorectal carcinoma survivin caspase-3 p21<sup>WAF1</sup> Immunohistochemistry

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