

## ERCC1、P27<sup>kip1</sup>、CyclinE在胃癌组织中的表达及其临床意义

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### Expression of ERCC1, P27<sup>kip1</sup>, CyclinE in Gastric Cancer and Its Clinical Significance

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**摘要** 目的: 观察ERCC1、P27<sup>kip1</sup>、CyclinE在胃癌组织中的表达, 探讨其在胃癌发生、发展中可能的作用及临床意义。

方法: 采用免疫组织化学方法 (EliVisionTM 二步法) 检测手术切除的45例胃癌组织和10例正常胃组织中ERCC1、P27<sup>kip1</sup>、CyclinE的表达情况, 并采用 $\chi^2$ 检验和Pearson列联相关方法, 分析ERCC1、P27<sup>kip1</sup>、CyclinE这三个指标与胃癌临床病理参数的关系及其三个指标的相关性。

结果: 胃癌组织中ERCC1、P27<sup>kip1</sup>、CyclinE阳性率分别为31.1%、35.6%、55.6%, ERCC1在胃癌组织中阳性率显著低于对照组 ( $P < 0.05$ ); P27<sup>kip1</sup>在正常胃组织表达高于胃癌组、CyclinE在胃癌组表达高于正常对照组, 两者差异均有统计学意义 ( $P < 0.05$ )。胃癌中ERCC1、P27<sup>kip1</sup>、CyclinE表达与肿瘤浸润深度、有无淋巴结转移、有无远处转移、临床病理分期有关 ( $P < 0.05$ ), 但与患者的性别、年龄、肿瘤大小、部位、分化程度无关 ( $P > 0.05$ ); P27<sup>kip1</sup>、CyclinE之间存在负相关。

结论: ERCC1、P27<sup>kip1</sup>的低表达、CyclinE的高表达与胃癌的发生、发展密切相关; ERCC1、P27<sup>kip1</sup>、CyclinE的表达水平可用于胃癌的诊断、鉴别及预后的判断; P27<sup>kip1</sup>与CyclinE蛋白在胃癌组织中表达成负相关, ERCC1与P27<sup>kip1</sup>、CyclinE蛋白的表达无相关性。

**关键词:** 胃癌 ERCC1 P27<sup>kip1</sup> CyclinE 免疫组织化学

**Abstract:** Objective: To investigate the expression of excision repair cross complementing-1(ERCC1), P27<sup>kip1</sup> and CyclinE in gastric cancer and explore its role in development of gastric carcinoma and its clinical significance.

**Methods:** Expression levels of ERCC1, P27<sup>kip1</sup> and CyclinE in 45 resected patients with gastric cancer and 10 normal tissues were detected by the method of immunohistochemistry (EliVisionTM). We analyzed its correlation with gastric cancer in  $\chi^2$  test and Pearson analyze.

**Results:** The positive rates of ERCC1, P27<sup>kip1</sup> and CyclinE protein expression was 31.1%, 35.6% and 55.6% in gastric cancer, respectively. The positive rate of ERCC1 and P27<sup>kip1</sup> in gastric cancer was lower than that in comparison group ( $P < 0.05$ ); The expression of CyclinE showed a significant difference from those of normal gastric mucosa ( $P < 0.05$ ). The expression level of ERCC1, P27<sup>kip1</sup> and CyclinE was related to serosa invasion, lymphnode metastasis, distant metastasis and clinical

histological grade ( $P < 0.05$ ). However, the expression of ERCC1, P27<sup>kip1</sup> and CyclinE was not associated with gender, age, tumor size, position and differentiation.

There was a highly negative correlation between P27<sup>kip1</sup> and CyclinE expression ( $P < 0.05$ ).

**Conclusion:** The high expression of ERCC1, P27<sup>kip1</sup> and the low expression of CyclinE were related to occurrence and development of gastric cancer. The detection of

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ERCC1, P27<sup>kip1</sup> and CyclinE may be used for the diagnosis, identification and prognosis in patients with gastric cancer. There was a negative correlation between P27<sup>kip1</sup> and CyclinE protein expression, but there was not correlation between expression level of ERCC1, P27<sup>kip1</sup> and CyclinE in gastric cancer.

Key words: Gastric cancer ERCC1 P27<sup>kip1</sup> CyclinE Immunohistochemistry

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没有本文参考文献

- [1] 穆媛媛;吴会超;杨莹莹;苏薇. 胃泌素及其受体拮抗剂对人胃癌细胞株MKN45增殖及HB-EGF表达的影响[J]. 肿瘤防治研究, 2012, 39(2): 133-136.
- [2] 王小莉;龚兴牡. Trx-1和COX-2在非小细胞肺癌中的表达及意义[J]. 肿瘤防治研究, 2012, 39(2): 166-168.
- [3] 张冠军;梁华;王春宝;张学斌;王一理. NDRG-1及MMP-7在肾细胞癌中的表达及意义[J]. 肿瘤防治研究, 2012, 39(1): 54-58.
- [4] 孙建建;李胜棉;赵松;李光辉;王小玲. Survivin和Caspase-3在胰腺癌组织中的表达及与预后的关系[J]. 肿瘤防治研究, 2012, 39(1): 62-67.
- [5] 于秀文;李姗姗;孙玉荣;王显艳;张春庆. 胃癌发生不同阶段E-cadherin和TCF4的联合检测及其对胃癌Lauren's分型的意义[J]. 肿瘤防治研究, 2011, 38(9): 1031-1034.
- [6] 周英琼;肖胜军;侯巧燕;莫文法. TGF- $\beta$ 1及其信号转导通路分子在鼻咽癌组织芯片中的表达及意义[J]. 肿瘤防治研究, 2011, 38(9): 1023-1027.
- [7] 申兴斌;段惠佳;赵杨;张古林. 垂体肿瘤转化基因在大肠正常黏膜、腺瘤及大肠癌组织中的表达及意义[J]. 肿瘤防治研究, 2011, 38(9): 1042-1045.
- [8] 谭志军;姜伟;谷川;张建良. 胶滴肿瘤药敏试验检测胃癌细胞化疗敏感度[J]. 肿瘤防治研究, 2011, 38(9): 1074-1075.
- [9] 陈曦;毛勤生;黄华;朱建伟. PKC- $\zeta$ 在大肠良恶性组织中的表达及其与Cortactin蛋白的关系[J]. 肿瘤防治研究, 2011, 38(8): 903-908.
- [10] 王志峰;刘勤江;廖世奇;葛廷;杨荣. 甲状腺癌NIS和TSHR表达的矛盾性及非相关性[J]. 肿瘤防治研究, 2011, 38(8): 909-913.
- [11] 秦艳茹;艾教育;汤虹;李芳芳;乔俊静. 食管鳞状细胞癌组织中Ezrin基因的表达和临床意义[J]. 肿瘤防治研究, 2011, 38(8): 914-917.
- [12] 黄海建;余英豪;郑智勇. 卵巢恶性Brenner瘤伴脾转移1例报告并文献复习 [J]. 肿瘤防治研究, 2011, 38(8): 954-956.
- [13] 胡蓉环;刘安文;蔡婧;张树辉. MAP4K4在肝细胞癌中的表达及意义[J]. 肿瘤防治研究, 2011, 38(7): 752-755.
- [14] 杨廷桐;武俊芳;李秀杰;孙洁;候夏宝. p53基因突变对非小细胞肺癌TSG101/MDM2信号通路的影响[J]. 肿瘤防治研究, 2011, 38(7): 774-777.
- [15] 张德才;张景华;汪萍;何津;刘远廷;马杰;牛凤玲. 乳腺癌组织中Id1基因mRNA的表达及其与临床病理的关系[J]. 肿瘤防治研究, 2011, 38(7): 780-783.