

APC、β-catenin 和c-myc 在大肠癌中的表达及其意义

戴文斌,任占平,陈蔚麟,杜娟,石喆,唐德艳

545001 广西柳州市人民医院病理科

Expression and Significance of APC,β-catenin and c-myc Proteins in Colorectal Carcinoma

DAI Wen-bin ,REN Zhan-ping ,CHEN Wei-lin ,DU Juan ,SHI Zhe ,TANG De-yan

Department of Pathology , Liuzhou People's Hospital , Liuzhou 545001 , China

- 摘要
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全文: PDF (655 KB) HTML (0 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 目的 探讨APC、β-catenin和c-myc在大肠癌发生、发展中的作用。方法 采用免疫组化方法检测30例正常大肠黏膜、30例大肠腺瘤、10例大肠腺瘤恶变及50例大肠癌组织中APC、pcatenin和c-myc蛋白的表达情况。结果 大肠癌和大肠腺瘤恶变APC阳性率分别为44.0%、40.0%，显著低于大肠腺瘤(86.7%)和正常大肠黏膜(100%) (P<0.01)。大肠癌、大肠腺瘤恶变和大肠腺瘤β-catenin胞浆和(或)胞核异位表达率分别为62.0%、50.0%、30.0%，显著高于正常大肠黏膜(0) (P<0.01)，大肠癌β-catenin异位表达率显著高于大肠腺瘤(P<0.01)。大肠癌、大肠腺瘤恶变、大肠腺瘤c-myc阳性率分别为56.0%、60.0%、46.7%，显著高于正常大肠黏膜(0) (P<0.01)。大肠癌中β-catenin膜表达缺失率为46.0%，显著高于大肠腺瘤(10.0%)和正常大肠黏膜(0) (P<0.01)，且与大肠癌组织分化程度、浸润深度、淋巴结转移、Dukes分期有关。APC蛋白表达与大肠癌组织分化程度有关。大肠癌中β-catenin异位表达与c-myc阳性表达呈正相关关系(r=0.63, P<0.01)，而与APC阳性表达呈负相关关系(r=-0.39, P=0.05)。结论 APC失表达和(或)pcatenin异位表达，激活癌基因c-myc过表达与大肠癌的发生、发展密切相关，可能是大肠癌发生的早期事件；pcatenin膜表达缺失与大肠癌的侵袭、转移有关。

关键词: 大肠癌 APC β-catenin c-myc

Abstract: Objective To investigate the role of APC,β-catenin and c-myc in the carcinogenesis and progression of colorectal carcinoma. Methods Expression of APC,β-catenin and c-myc proteins was examined immunohistochemically in 30 cases of normal colorectal mucosa,30 cases of colorectal adenoma,10 cases of colorectal adenoma carcinogenesis and 50 cases of colorectal carcinoma. Results The positive expression rates of APC were 44.0% and 40.0% respectively in colorectal carcinoma and colorectal adenoma carcinogenesis, and both of the rates were significantly lower than that of colorectal adenoma (86.7%) and normal colorectal mucosa (100%) (P<0.01). The cytoplasmic and/ or nuclear β-catenin expression rates were 62.0%,50.0% and 30.0% respectively in colorectal carcinoma, colorectal adenoma carcinogenesis and colorectal adenoma, and all of the rates were significantly higher than that of normal colorectal mucosa (0) (P<0.01). The cytoplasmic and/ or nuclearβ-catenin expression rate in colorectal carcinoma was significantly higher than that of colorectal adenoma (P<0.01). The positive expression rates of cmyc were 56.0%,60.0% and 46.7% respectively in colorectal carcinoma, colorectal adenoma carcinogenesis and colorectal adenoma, and all of the rates were significantly higher than that of normal colorectal mucosa (0) (P<0.01). The reduced membranousβ-catenin expression rate in colorectal carcinoma was significantly higher than that of colorectal adenoma and normal colorectal mucosa (P<0.01). The reduced membranousβ-catenin expression was closely related with the tissue differentiation degree, the depth of invasion, lymph node metastasis and Dukes stage in colorectal carcinoma. The expression of APC was closely related with the tissue differentiation degree in colorectal carcinoma. The cytoplasmic and/ or nuclearβ-catenin expression was thus in positive correlation with the expression of c-myc (r=0.63, P<0.01), and was in negative correlation with the expression of APC (r=-0.39, P<0.05). Conclusion The reduced cytoplasmic APC expression, the cytoplasmic and/ or nuclear β-catenin expression, and the overexpression of c-myc may play a pivotal role in carcinogenesis and progression of colorectal carcinoma, and may be an early event. The reduced membranousβ-catenin expression may be related to the invasion and metastasis of colorectal carcinoma.

Key words: Colorectal carcinoma APC β-catenin c-myc

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引用本文:

戴文斌,任占平,陈蔚麟等. APC、 β -catenin 和c-myc 在大肠癌中的表达及其意义[J]. 肿瘤防治研究, 2007, 34(10): 755-758,.

DAI Wen-bin,REN Zhan-ping,CHEN Wei-lin et al. Expression and Significance of APC, β -catenin and c-myc Proteins in Colorectal Carcinoma[J]. CHINA RESEARCH ON PREVENTION AND TREATMENT, 2007, 34(10): 755-758,.

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