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论著

## NGX6基因两转录本在不同分期结直肠癌中的表达及与癌胚抗原的关系

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摘要:

目的: 探讨NGX6 mRNA两种转录本NGX6 S和NGX6 L在结直肠癌中的表达及功能。方法: 采用原位杂交法检测NGX6 L和NGX6 S在不同分期结直肠癌组织及其配对正常组织中的表达特征, 并分析其与血清癌胚抗原(CEA)的相关性。结果: 在结直肠癌组织中短转录本NGX6 S的表达明显高于长转录本NGX6 L( $P=0.008$ )。NGX6 S和NGX6 L在不同分期结直肠癌组织中的表达差异均无统计学意义( $P>0.05$ )。NGX6 S在Duke A, B和C三期结直肠癌组织中的表达与其在配对正常组织的表达差异无统计学意义( $P>0.05$ ), 在有远处转移的Duke D期结直肠癌组织中的表达低于配对正常组织( $P=0.033$ )。NGX6 L在Duke A, B, C和D期结直肠癌组织中的表达与配对正常组织差别无统计学意义( $P>0.05$ )。结直肠癌中NGX6 S, NGX6 L的表达与血清CEA浓度无相关性。结论: 在结直肠癌中NGX6基因发挥抑瘤功能的主要形式是短转录本NGX6 S, 其表达下调可能与结直肠癌的远处转移相关。

关键词: 结直肠癌 NGX6基因 转录本 癌胚抗原

## Expression of 2 transcripts of NGX6 gene in colorectal cancer and the correlation with carcinoembryonic antigen

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Abstract:

Objective To investigate the expression and function of NGX6 S (short transcript) and NGX6 L (long transcript) in colorectal cancer. Methods In situ hybridization was used to detect the expression of these 2 transcripts in colorectal cancer tissues and paired normal tissues, and analyze the correlation between NGX6 and carcinoembryonic antigen (CEA). Results The expression of NGX6 S was higher than that of NGX6 L in the colorectal cancer tissues ( $P=0.008$ ). The expressions of NGX6 S and NGX6 L were not different among the 4 stages of colorectal cancer ( $P>0.05$ ). The expression of NGX6 S in the colorectal cancer tissues of Duke A, B, and C stages had no difference with that of the paired normal tissues ( $P>0.05$ ). Inversely, the expression of NGX6 S in the colorectal cancer tissues of Duke D stage was lower than that in the paired normal tissues ( $P=0.033$ ). NGX6 L expression was not different between the colorectal cancer tissues and the paired normal tissues in 4 stages ( $P>0.05$ ). The expression of NGX6 S and NGX6 L had no correlation with the serum concentration of CEA. Conclusion NGX6 S may play an important role in colorectal cancer, and the lowered expression of NGX6 S may contribute to the distant metastasis of colorectal cancer.

Keywords: colorectal cancer;NGX6 gene;transcript;carcinoembryonic antigen

收稿日期 2009-10-30 修回日期 网络版发布日期

DOI: 10.3969/j.issn.1672-7347.2010.

基金项目:

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