论著

乳腺癌bcl-2甲基化的检测及与表达、预后的关系

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摘要 目的:建立bcl-2基因甲基化特异的PCR(MSP)检测方法,并探讨乳腺癌bcl-2甲基化与蛋白表达、预后因素(肿瘤大小,淋巴结转移,增殖细胞核抗原PCNA,雌、孕激素受体ER、PR情况)的关系。 方法: 设计bcl-2基因MSP引物,采用MSP方法检测54例乳腺癌bcl-2基因5′端启动子CpG岛甲基化状态。采用免疫组化S-P法检测54例乳腺癌bcl-2、PCNA、ER、PR的表达。 结果: 乳腺癌bcl-2甲基化率为29.6%。Bcl-2甲基化与其蛋白表达之间呈显著负相关(P<0.01)。Bcl-2甲基化率高与不良的预后因素(PCNA标记指数LI高、ER-和PR-)显著相关(P<0.01)。 结论: 该研究建立bcl-2基因MSP检测方法,MSP扩增和测序结果证实,bcl-2基因MSP引物设计是合理的。bcl-2甲基化有可能成为乳腺癌预后不良的分子检测指标。

关键词 乳腺肿瘤; DNA甲基化; 基因; bcl-2

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Detection of bcl-2 methylation and the relationship between bcl-2 methylation and expression, prognostic factors in breast cancer

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Abstract

AIM: To establish methylation-specific PCR (MSP) method for detecting bcl-2 gene, and to study the relationship between bcl-2 methylation and expression, prognostic factors in breast cancer. METHODS: The primer of bcl-2 gene for MSP was designed. The methylations in CpG island of bcl-2 gene in 54 cases of breast cancer were detected by using MSP. The expressions of bcl-2, PCNA, ER and PR in 54 cases of breast cancer were detected by using SP immunohistochemical technique. RESULTS: The overall positive rate of bcl-2 methylation was 29.6% in breast cancer. There was a significant negative correlation between the methylation of bcl-2 and the expression of bcl-2 (P<0.01). The methylation of bcl-2 coincided with those bad prognostic factors such as high PCNA label index (LI), ER-and PR-(P<0.01). CONCLUSIONS: This study established the MSP method for detecting bcl-2 gene. The results of MSP and sequence analysis testified that the design of the MSP primer of bcl-2 gene in this study was successful. The methylation of bcl-2 would become the marker indicating bad prognosis of breast cancer.</p>

Key words Beast neoplasms DNA methylation Genes bcl-2

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