论著

乳腺癌组织cystatin M基因的表达及其临床病理意义

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背景与目的:探讨cystatin M基因在人乳腺癌组织中的表达及生物学意义。材料与方法:采用半定量 RT-PCR方法和免疫组织化学法检测50例乳腺癌组织和配对癌旁乳腺组织半胱氨酸蛋白酶抑制剂cystatin M mRNA和蛋白表达及其与临床病理特征的关系。结果: 乳腺癌组织cystatin M mRNA表达阳性率为62%(31/50), 其配对癌旁乳腺组织为94%(47/50),在乳腺癌细胞系MDA-MB-435S中未见其表达。乳腺癌组织cystatin M mRNA的表达指数为0.412±0.021, 明显低于配对的癌旁乳腺组织(0.541±0.020), 二者差异有统计学意义 (P<0.01)。cystatin M蛋白在乳腺癌及癌旁组织表达阳性率分别为58% (29/50)和92% (46/50); 其平均光密度值 为0.318±0.058,显著低于癌旁乳腺组织 (0.428±0.064,P<0.01);cystatin M表达下调与乳腺癌淋巴结转移和临床 TNM分期显著相关(P<0.05),而与肿瘤的大小、病理分级、ER和PR状况无关(P>0.05)。 结论: 人乳腺癌组织 存在cystatin M基因表达显著下调且与肿瘤的浸润和转移有关。

乳腺癌; cystatin M; 基因表达; 转移

Clinicopathological Significance of Cystatin M Gene Expression in Human Breast Cancer

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Abstract BACKGROUND & AIM: To explore the expression of cystatin M, a major cysteine M: 基因表达: 转移 "的 相关文 protease inhibitor, in human breast cancer and its significance. MATERIAL AND METHODS: A semi-quantitative reverse transcription polymerase chain reaction and immunohistochemical methods were performed to evaluate the expression of cystatin M in cancerous and noncancerous tissues of fifty pairs of human invasive ductal adenocarcinoma of breast. The relationship between the expression of cystatin M gene in human breast carcinoma and clinilcopathological features was analyzed. RESULTS: Reduced expression level of cystatin M gene mRNA and protein has been noted in breast carcinoma cells compared to adjacent noncancerous breast tissue (P<0.01). The lower experssion levels in breast carcinoma cells was related with clinicopathological features including lymph-node metastasis and TNM staging (P<0.05) but not with the histological grade nor the estrogen and progesterone receptor status (P>0.05). CONCLUSION: The expression of cystatin M gene mRNA and protein was reduced in human invasive breast carcinoma. Downregulated expression of cystatin M in breast carcinoma might be associated with tumor invasion and metastasis.

Keywords breast carcinoma cystatin M gene gene expression metastasis

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