

肿瘤防治

乳腺癌组织中P73、P51基因的表达及其临床病理学意义

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摘要 背景与目的: 研究P73、P51基因在乳腺癌组织中表达的差异。材料与方法: 应用RT-PCR和末端脱氧核苷酸转移酶介导的dUTP缺口末端标记(TUNEL)、分别检测乳腺癌组织中P73、P51基因的表达及其与乳腺癌细胞凋亡的关系。结果: 45例原发性乳腺癌中P73与P51基因表达之间差异有统计学意义($P<0.05$)。35例纤维腺瘤中, P73与P51基因表达之间, 差异无统计学意义($P>0.05$)。在有淋巴结转移及雌、孕激素受体阳性或阴性者, 两种基因的表达差异均无统计学意义($P>0.05$); 而24例无淋巴结转移者两种基因的表达差异有统计学意义($P<0.05$)。P73与P51基因均表达阳性及均表达阴性的病例中肿瘤细胞凋亡率差异均无统计学意义($P>0.05$)。结论: 乳腺癌组织中P73基因的表达高于P51基因的表达, 可能P73基因在乳腺癌的发病机制中发挥的作用比P51基因重要, 尤其在肿瘤早期, 但具体的机制还有待于进一步深入研究。

关键词 [P73](#) [P51](#); [乳腺癌](#) [凋亡](#); [RT-PCR](#)

Expressions of P73 and P51 Genes and Their Clinical Pathological Significances in Breast Cancer

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Abstract BACKGROUND & AIM: To determine the different expressions of P73 and P51 genes in breast cancer. **MATERIALS AND METHODS:** The expressions of P73 and P51 gene in breast cancer tissues were assessed by RT-PCR and terminal deoxynucleotidyl transferase biotin_dUTP nick end labeling(TUNEL)and the relationship between the two genes and apoptosis were analysed. **RESULTS:** The difference in the expressions of P73 and P51 genes was significant in breast cancer($P<0.05$). There was no statistical significance between these two gene expressions in breast fibroadenoma ($P>0.05$).The difference in the expressions of P73 and P51 genes was significant in those without lymph nodes metastasis($P<0.05$), but not in those with positive nodes.Also, there was no significant difference between the expressions of P73 and P51 genes in ER_and PR_positive breast cancer and ER_and PR_negative breast cancers($P>0.05$). The apoptosis rate cancer cells with P51 gene was not significantly different from those with p73 gene.The same was true for cancer cells without either gene. **CONCLUSION:** The expression of P73 gene was higher than that of P51 gene in breast cancer. P73 gene may play a more important role in breast carcinogenesis than P51, especially in the early stage of tumor. But the pathogenesis needs further studies.

Keywords [P73](#) [P51](#); [breast cancer](#) [apoptosis](#); [RT-PCR](#)

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