

临床医学

Bax基因多态性与乳腺癌临床病理特点的关系

白杨1, 崔国忠1, 戴殿禄1, 桑梅香2, 耿翠芝3

1. 沧州市中心医院肿瘤外二科, 河北 沧州 061001; 2. 河北医科大学第四医院科研中心, 石家庄 050011; 3. 河北医科大学第四医院乳腺中心, 石家庄 050011

摘要:

目的 探讨促凋亡基因Bax启动子区G(-248)A单核苷酸多态性(SNP)与乳腺癌患者临床病理特点的关系。方法 采用聚合酶链反应-限制性酶切片长度多态性分析(PCR-RFLP)方法检测113例乳腺癌患者Bax G(-248)A SNP的3个基因型(AA、AG和GG基因型), 并与临床病理学指标相关联, 比较各组间基因型频率的分布。结果 AG+AA型在肿瘤大小T>2cm、临床分期II~III期、淋巴结转移阳性、C-erbB2蛋白阳性表达组中的比率均低于GG型, 差异有统计学意义(P<0.05); 在病理类型、组织学分级和雌激素受体(ER)、孕激素受体(PR)蛋白表达水平组进行分层分析, AG+AA型和GG型的分布比率差异均无统计学意义(P>0.05)。结论 AG+AA基因型可能与乳腺癌肿瘤较小、临床分期较早、淋巴结转移率较低和C-erbB2蛋白阴性表达相关。

关键词: Bax; 单核苷酸多态性; 乳腺肿瘤

Association between Bax polymorphism and clinicopathological features of breast cancer

BAI Yang1, CUI Guo-zhong1, DAI Dian-lu1, SANG Mei-xiang2, GENG Cui-zhi3

1. Second Department of Tumor Surgery, Cangzhou Central Hospital, Cangzhou 061001, Hebei, China; 2. Research Center, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China; 3. Breast Center, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China

Abstract:

Objective To investigate the association between G(-248)A single nucleotide polymorphism (SNP) in pro-apoptosis gene Bax promoter and the clinicopathological features of breast cancer. Methods The 3 genotypes (AA, AG, GG) of Bax G(-248)A SNP in 113 patients with breast cancer were analyzed using polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP), and the distributions of the 3 genotype frequency were compared. Results The distribution of genotype AG+AA was notably lower than that of GG in tumor size T>2cm, clinical stage II+III, positive lymph node metastasis and C-erbB2 protein expression, with statistically significant difference (P<0.05). There were no differences between the distributions of AG+AA genotype and GG genotype in pathological types, histological grade, estrogen receptor (ER) and progesterone (PR). Conclusion The AG+AA genotype may be associated with smaller breast cancer, lower clinical stage, lower auxiliary lymph node metastasis rate, and negative C-erbB2 protein expression.

Keywords: Bax; Single nucleotide polymorphism; Breast neoplasm

收稿日期 2013-09-02 修回日期 网络版发布日期

DOI:

基金项目:

河北省高等院校强势特色学科资金资助 [冀教高(2005)52号]; 河北省医学适用技术跟踪项目 (GL200520)。

通讯作者: 耿翠芝, E-mail: gengcuizhi@hotmail.com

作者简介:

作者Email:

参考文献:

本刊中的类似文章

扩展功能

本文信息

- Supporting info
- PDF(1980KB)
- [HTML全文]
- 参考文献[PDF]
- 参考文献

服务与反馈

- 把本文推荐给朋友
- 加入我的书架
- 加入引用管理器
- 引用本文
- Email Alert
- 文章反馈
- 浏览反馈信息

本文关键词相关文章

- Bax; 单核苷酸多态性; 乳腺

本文作者相关文章

PubMed