



CD44⁺/CD24⁻表型与BRCA1及basal-like乳腺癌的相关性

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Relationship between CD44⁺/CD24⁻ Phenotype and BRCA1, basal-like Breast Cancer

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- 摘要
- 参考文献
- 相关文章

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摘要 目的: 探讨CD44⁺/CD24⁻表型与BRCA1及basal-like乳腺癌的相关性。方法: 收集经病理诊断为乳腺癌患者的手术切除石蜡标本共217例, 根据免疫学标志物把217例乳腺癌划分为5类分子亚型: basal-like型、luminal A型、luminal B型、Her2过表达型和normal breast-like型。应用免疫组织化学检测CK5/6、BRCA1和CD44/CD24双染的情况, 分析CD44⁺/CD24⁻表型与basal-like乳腺癌及BRCA1相关性乳腺癌的关系。结果: 217例乳腺癌标本中, luminal A型130例、luminal B型15例、HER2过表达型21例、basal-like型29例、Normal breast-like型22例。BRCA1相关性乳腺癌57例。basal-like乳腺癌组织中BRCA1缺失率86% (25/29), 明显高于乳腺癌其他分子亚型(P<0.001)。basal-like乳腺癌组织中含CD44⁺/CD24⁻肿瘤细胞者20例 (20/29, 69%), 明显高于乳腺癌其他分子亚型(P=0.003); BRCA1相关性乳腺癌中含CD44⁺/CD24⁻肿瘤细胞者53例 (53/57, 93%)。结论: BRCA1基因突变与basal-like乳腺癌有关; CD44⁺/CD24⁻干细胞表型主要存在于basal-like乳腺癌及BRCA1相关性乳腺癌中。

关键词: basal-like乳腺癌 CD44⁺/CD24⁻表型 双重免疫组织化学染色 BRCA1

Abstract: Objective: To study the expression of CD44⁺/CD24⁻ phenotype and its association with the basal-like breast cancer and BRCA1 in breast cancer. Methods: Using immunostaining ER, PR, HER2 and CK5/6 to classify the material into five tumor subgroups: basal-like subgroup, Luminal A subgroup, Luminal B subgroup, Her2 over-expressing subgroup and normal breast-like subgroup. Double-staining immunohistochemistry (IHC) was applied to the detection of CD44⁺/CD24⁻ cells and single-staining (IHC) for CK5/6, BRCA1. The correlations of the expression of the CD44⁺/CD24⁻ to basal-like and BRCA1-associated breast cancer were analyzed. Results: In 217 cases of breast cancer, Luminal A subgroup: 130 cases, Luminal B subgroup: 15 cases, Her2 over-expressing subgroup: 21 cases, basal-like subgroup: 29 cases, Normal breast-like subgroup: 22 cases. BRCA1-associated breast cancer: 57 cases. The expression rates of BRCA1 was low in basal-like breast cancer, which was significantly different from the other subgroups (P<0.001). The expression rates of CD44⁺/CD24⁻ phenotype was high in basal-like breast cancer (20/29, 69%) and BRCA1-associated breast cancer (53/57, 93%), which was significantly different from the other subgroups (P=0.003). Conclusion: The mutation of BRCA1 is association with basal-like breast cancer; and the CD44⁺/CD24⁻ breast cancer stem cells in tumor tissue is association with BRCA1-associated breast cancer and basal-like breast cancer.

Key words: Basal-like breast cancer CD44⁺/CD24⁻ phenotype Double-immunostaining BRCA1

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