

论文

乳腺浸润性导管癌中Caspase-3、OPN和Ezrin蛋白的表达及临床意义

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摘要:

目的 探讨天冬氨酸特异性半胱氨酸蛋白酶-3 (Caspase-3)、骨桥蛋白(OPN)和埃兹蛋白(Ezrin)在乳腺浸润性导管癌(IDC)中的表达及其与临床病理因素的关系。方法 应用免疫组化链霉菌抗生物素蛋白-过氧化物酶连接(SP)法检测71例术中切除的原发性乳腺IDC和33例距癌灶约5cm处正常乳腺组织中Caspase-3、OPN和Ezrin的表达,分析3种蛋白间及其与乳腺IDC病理特征的关系。结果 乳腺IDC组Caspase-3、OPN及Ezrin的阳性表达率分别为43.66%、74.65%、64.79%,正常乳腺组织对照组Caspase-3、OPN及Ezrin阳性表达率分别为75.76%、33.33%、39.39%,3指标在两组间表达差异均有统计学意义(P<0.05);在IDC组,3种蛋白的表达与乳腺IDC的淋巴结转移及肿瘤复发相关;Caspase-3、OPN及Ezrin蛋白的表达与雌激素受体(ER)、孕激素受体(PR)及原癌基因人类表皮生长因子受体2(Her-2)的表达无明显相关性;Caspase-3与OPN、Ezrin的表达呈负相关(r=-0.258、-0.313),OPN与Ezrin的表达呈正相关(r=0.29)。结论 乳腺浸润性导管癌中Caspase-3、OPN、Ezrin 3种蛋白的异常表达在其发生、发展中可能起着重要的作用。

关键词: 乳腺肿瘤; 天冬氨酸特异性半胱氨酸蛋白酶; 骨桥蛋白; 埃兹蛋白

Expressions of Caspase-3, OPN and Ezrin in invasive ductal carcinoma of breasts and their clinical significance

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Abstract:

Objective To investigate expressions of cysteinyl aspartate specific protease-3(Caspase-3), osteopontin(OPN) and Ezrin in invasive ductal carcinoma(IDC) of breasts and their relationship with clinicopathological characteristics. Methods Expressions of Caspase-3, OPN and Ezrin were detected in 71 IDC tissues and 33 normal mammary specimens with the immunohistochemical streptavidin-peroxidase (SP) method, and their relationship with clinical pathological characteristics was analyzed. Results Positive rates of Caspase-3, OPN and Ezrin in IDC tissues(43.66%, 74.65% and 64.79%, respectively) were significantly different from those in normal mammary tissues(75.76%, 33.33% and 39.39%, respectively) (P<0.05). Also, expressions of Caspase-3, OPN and Ezrin in IDC tissues had a significant relationship with lymph node metastasis and recurrence of the tumor (P<0.05), while they had no significant relationship with expressions of ER, PR and Her-2. Expression of Caspase-3 was negatively related to those of OPN and Ezrin in IDC (r=-0.258, -0.313), while expression of OPN was positively related to that of Ezrin (r=0.29). Conclusion Abnormal expressions of Caspase-3, OPN and Ezrin play important roles in the occurrence and development of IDC of breasts.

Keywords: Breast tumor; Cysteinyl aspartate specific protease; Osteopontin; Ezrin

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