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KISS1及骨桥蛋白在上皮性卵巢癌中的表达及其临床意义 点此下载全文

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摘要：

目的： 探讨KISS1(KiSS-1 metastasis-suppressor)和骨桥蛋白（osteopontin，OPN）在上皮性卵巢癌（epithelial ovarian cancer, EOC）组织中的表达及其临床意义。 方法： 选取2009年3月至2010年10月在河北医科大学第四医院妇科接受手术的上皮性卵巢肿瘤患者组织标本67例，免疫组化法检测KISS1和OPN在肿瘤组织中的表达，分析其相关性和临床意义。 结果 ： KISS1蛋白在EOC组织中的表达明显低于其在卵巢良性肿瘤组织中的表达\[39.5%(17/43) vs 75.0%(18/24); χ 2=7 765, P=0.005\]；有淋巴结转移组中KISS1的表达低于无淋巴结转移组\[25 0%（7/28）vs 66.7% (10/15)； χ 2=7.094, P=0.008 \]；在不同临床分期组中，Ⅰ+Ⅱ期EOC中KISS1的表达高于Ⅲ+Ⅳ期\[61.1% (11/18) vs 24.0%(6/25); χ 2=6 029, P=0.014\]。OPN蛋白在EOC组织中的表达率明显高于其在卵巢良性肿瘤组织中的表达\[74.4%(32/43) vs 37.5%(11/24); χ 2=5.475, P=0.019\]；在有淋巴结转移组中OPN的表达高于无淋巴结转移组\[89.3%（25/28）vs 46.7% (7/15); χ 2=7.251, P=0.007\]；在不同临床分期组中，Ⅰ+Ⅱ期EOC中OPN的表达低于Ⅲ+Ⅳ期\[50.0% (9/18) vs 92.0%（23/25）; χ 2=7.616, P=0.006\]。KISS1和OPN蛋白的表达与EOC的病理类型及患者年龄无关（P>0.05）。在EOC中，KISS1与OPN蛋白的表达呈负相关（r=-0.507， P=0.001）。 结论： KISS1和OPN可能参与了EOC的发生、发展和转移，有可能成为EOC预后判断的生物学标志物。

关键词：上皮性卵巢癌 KISS1 骨桥蛋白 免疫组织化学

Expressions of KISS1 and osteopontin in epithelial ovarian cancer and their clinical significance Download Fulltext

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Abstract:

Objective：To investigate the expression and clinical significance of KiSS-1 metastasis-suppressor (KISS1) and osteopontin (OPN) in epithelial ovarian cancer (EOC). Methods: From March 2009 to October 2010, epithelial ovarian tumors of 67 patients operated in Gynecology Department of the Fourth Hospital of Hebei Medical University were selected. The expressions of KISS1 and OPN in EOC were detected by immunohistochemistry (IHC). Results: The frequency of KISS1 positive expression was 39.53% (17/43) in EOC tissues, which was significantly lower than that in ovarian benign tumor tissues (75.00%, 18/24), with a significant difference between two groups (χ 2=7.765, P=0 005). The expression of KISS1 protein in the lymph node metastasis group was significantly lower than that in the without lymph node metastasis group (25 0% \[7/28\] vs 66.7% \[10/15\]; χ 2=7.094, P=0.008). In the clinical stage group, the expression of KISS1 protein was significantly higher in Ⅰ+Ⅱ stage than in Ⅲ+Ⅳ stage (61.1% \[11/18\] vs 24.0% \[6/25\]; χ 2=6.029, P=0.014). The frequency of OPN positive expression was 74.42% (32/43) in EOC tissues, which was significantly higher than that in the ovarian benign tumor tissue group (37.50%, 11/24) with a significant difference between two groups（74.4% \[32/43\] vs 37.5%\[11/24\];χ 2=5.475, P=0.019）. The expression of OPN in the lymph node metastasis group was significantly higher than that in the without lymph node metastasis group (89 3% \[25/28\] vs 46.7% \[7/15\]; χ2=7.251, P=0.007). In the clinical stage group, the expression of OPN was significantly lower in Ⅰ+Ⅱ stage than in Ⅲ+Ⅳ stage (50.0% \[9/18\] vs 92.0 \[23/25\]; χ 2=7.616, P=0.006). The protein expressions of KISS1 and OPN were not correlated with pathologic classification and patient's age of EOC （ P>0 05 ）, and there was a negative correlation between KISS1 and OPN protein expressions (r=-0.507, P=0 001). Conclusion: The protein expressions of OPN and KISS1 may participate in the carcinogenesis, invasion and metastasis of EOC, which may contribute to prognosis marker of EOC.

Keywords:epithelial ovarian cancer KISS1 osteopontin immunohistochemistry

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