

[1]于妍妍,雷增杰,郭严,等.赖氨酸特异性去甲基化酶1在食管鳞癌中的表达及其临床意义[J].第三军医大学学报,2013,35(09):910-913.

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赖氨酸特异性去甲基化酶1在食管鳞癌中的表达及其临床意义

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第09期 页码: 910-913 栏目: 论著 出版日期: 2013-05-15

Title: Expression and clinical significance of lysine specific demethylase 1 in human esophageal squamous cell carcinoma

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关键词: LSD1; 食管鳞癌; 细胞增殖; 凋亡

Keywords: lysine-specific demethylase 1; esophageal squamous cell carcinoma; proliferation; apoptosis

分类号: R345; R730.23; R735.1

文献标志码: A

摘要: 目的 检测赖氨酸特异性去甲基化酶1 (Lysine specific demethylase 1, LSD1) 在食管鳞癌以及正常食管组织中的表达, 并探讨LSD1与食管鳞癌临床特征、肿瘤增殖及凋亡等的关系。方法 免疫组化S-P染色法检测86例食管鳞癌组织及29例正常食管组织中LSD1、增殖相关抗原Ki67的表达情况, TUNEL检测食管鳞癌组织凋亡情况, 并分析LSD1表达与患者临床资料、预后以及增殖和凋亡的关系。结果 LSD1在食管鳞癌组织中阳性率(89.5%)明显高于正常组织(51.7%), 且与患者淋巴结转移相关($P<0.05$), 并能明显影响患者的预后($P<0.05$), LSD1的表达与肿瘤增殖有关, 但与凋亡无关。结论 LSD1在食管鳞癌中高表达且与患者预后相关, 可能成为食管鳞癌中值得研究的治疗靶标。

Abstract: Objective To determine the expression of lysine-specific demethylase 1 (LSD1) in esophageal squamous cell carcinoma (ESCC) and normal esophageal tissues, and study the relationship of LSD1 with clinical features, esophageal cancer cell proliferation and apoptosis. Methods The expression of

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LSD1 and proliferation related antigen (Ki67) in 86 ESCC tissue samples and 29 normal esophageal tissue samples were detected by immunohistochemical assay. TUNEL was used to detect the apoptosis of esophageal cancer cells. The relationship of LSD1 expression with clinical data was analyzed. Results The expression of LSD1 was significantly higher in ESCC than that in normal tissue (89.5% vs 51.7%, $P<0.05$). It was related to lymph node metastasis and tumor mass growth ($P<0.05$), but not to tumor cell apoptosis. The expression of LSD1 was correlated with the prognosis of the patients ($P<0.05$). Conclusion The high expression of LSD1 in ESCC is correlated with the prognosis of the patients, and may be regarded as a therapeutic target for ESCC.

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