

论著

舌鳞状细胞癌组织中EphA7和MTDH表达及其临床病理意义

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摘要:

目的:研究舌鳞状细胞癌和癌旁正常上皮组织中EphA7和MTDH表达水平及其临床病理意义。**方法:**采用免疫组织化学EnVision法检测45例舌鳞状细胞癌和10例癌旁正常上皮组织中EphA7和MTDH蛋白表达水平。**结果:**舌鳞状细胞癌EphA7和MTDH蛋白表达阳性率分别为55.6%和60%,均明显高于癌旁正常上皮组织

($\chi^2_{EphA7}=4.14, \chi^2_{MTDH}=5.25$; 均 $P<0.05$)。组织学分级I~II级、临床分期I~II期及无颈部淋巴结转移病例EphA7和MTDH表达阳性率明显低于组织学分级III~IV级、临床分期III~IV期及颈部淋巴结转移病例($P<0.05$ 或 $P<0.01$)。**结论:**EphA7和MTDH表达水平在舌鳞状细胞癌发生发展中可能起重要作用,EphA7和/或MTDH过表达者提示预后不良。

关键词: 舌鳞状细胞癌 Eph基因 异黏蛋白 免疫组织化学 预后

Expression of EphA7 and MTDH and clinicopathological significance in the squamous cell cancer of the tongue

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Abstract:

Objective To determine the expression levels of EphA7 and MTDH and detect their clinicopathological significance in the peritumoral normal tissues and the squamous cell cancer of the tongue. **Methods** Envision immunohistochemistry was used to assay the expression levels of EphA7 and MTDH in the conventional paraffin-embedded sections from specimens of squamous cell cancer ($n=45$) and peritumoral normal tissues ($n=10$). **Results** The positive rates of EphA7 and MTDH were significantly higher in the squamous cell cancer than those in the peritumoral normal tissues ($\chi^2_{EphA7}=4.14$; $\chi^2_{MTDH}=5.25$; $P<0.05$). The positive rates of EphA7 and MTDH expression were significantly lower in the cases of histological grade I- II, clinical stage I- II, and no-metastasis of neck lymph node than those in the histological grade III- IV, clinical stage III- IV, and metastasis of neck lymph node ($P<0.05$ or $P<0.01$). **Conclusion** The expression levels of EphA7 and/or MTDH might have important effect on the carcinogenesis and progression of tongue cancer. Overexpression of EphA7 and/or MTDH might have poor prognosis.

Keywords: tongue squamous cell carcinoma Eph genes metadherin immunohistochemistry prognosis

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参考文献:

[1] Hafner C, Schmitz G, Meyer S, et al. Differential gene expression of Eph receptors and ephrins in benign human tissues and cancers [J]. Clin Chem, 2004, 50(3): 490-499.

[2] Wang J, Kataoka H, Suzuki M, et al. Downregulation of EphA7 by hypermethylation in colorectal

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cancer [J] . Oncogene, 2005,24(36):5637-5647.

[3] Wang J, Li G, Ma H, et al. Differential expression of EphA7 receptor tyrosine kinase in gastric carcinoma [J] . Hum Pathol,2007,38(11):1649-1656.

[4] Wang L F, Fokas E, Juricko J, et al. Increased expression of EphA7 correlates with adverse outcome in primary and recurrent glioblastoma multiforme patients [J] . BMC Cancer,2008,8(3):79.

[5] Guan M, Xu C, Zhang F, et al. Aberrant methylation of EphA7 in human prostate cancer and its relation to clinopathologic features [J] . Int J Cancer,2009,124(1):88-94.

[6] Giaqinis C, Tsourouflis G, Zizi-serbetzoglou A, et al. Clinical significance of ephrin(eph)-A1,-A2,-A4,-A5 and -A7 receptors in pancreatic ductal adenocarcinoma [J] . Pathol Oncol Res,2010,16(2):267-276.

[7] Tsuboi M, Mori H, Bunai T, et al. Secreted form of EphA7 in lung cancer [J] . Int J Oncol,2010,36(3):635-640.

[8] Brown D M, Ruoslahti E. Metadherin, a cell surface protein in breast tumors that mediates lung metastasis [J] . Cancer Cell,2004,5(4):365-374.

[9] Hu G, Chong P A, Yang Q, et al. MTDH activation by 8q22 genomic gain promotes chemoresistance and metastasis of poor-prognosis breast cancer [J] . Cancer Cell,2009,15(1):1-2.

[10] Wei Y, Hu G, Kang Y. Metadherin as a link between metastasis and chemoresistance [J] . Cell Cycle,2009,8(14):2132-2133.

[11] Su P, Zhang Q. Immunohistochemical analysis of metadherin in proliferative and cancerous breast tissue [J] . Diagn Pathol,2010,5(5):38.

[12] Yu C, Chen K, Zheng H, et al. Overexpression of astrocyte elevated gene-1(AEG-1) is associated with esophageal squamous cell carcinoma (ESCC) progression and pathogenesis [J] . Carcinogenesis, 2009,30(5):894-901.

[13] Lee S G, Jeon H Y, Su Z Z, et al. Astrocyte elevated gene-1 contributes to the pathogenesis of neuroblastoma [J] . Oncogene,2009,28(26):2476-2484.

[14] Yoo B K, Emdad L, Su Z Z, et al. Astrocyte elevated gene-1 regulates hepatocellular carcinoma development and progression [J] . Clin Invest,2009,119(3):465-477.

[15] Emdad L, Sarkar D, Su Z Z, et al. Activation of the nuclear factor kappa B pathway by astrocyte elevated gene-1 :implications for tumor progression and metastasis [J] . Cancer Res,2006,66(3):1509-1516.

[16] Herath N I, Spanevelb M D, Sabesan S, et al. Overexpression of Eph and ephrin genes in advanced ovarian cancer, ephrin gene expression correlates with shortened survival [J] . BMC Cancer,2006,6(6):144.

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2. 黄晓春, 李晓林, 黄然欣, 金香淑. 73例外周T细胞淋巴瘤患者临床特征及预后分析 [J]. 中南大学学报(医学版), 2008,33(02): 151-155
3. 文路; 陈凌; 刘运生; .碱性成纤维细胞生长因子与垂体腺瘤增殖及侵袭能力的关系[J]. 中南大学学报(医学版), 2001,26(5): 466-
4. 黄谷香; 程瑞雪; 冯德云; 蒋海鹰; 傅春燕; 沈明; .原发性肝细胞癌中p16和cyclin D1蛋白表达及p16突变研究[J]. 中南大学学报(医学版), 2001,26(6): 527-
5. 黄垂学; 胡守兴; 陈兵; .脑星形细胞瘤中神经细胞黏附分子与PCNA的表达及其关系[J]. 中南大学学报(医学版), 2001,26(6): 543-
6. 黄小艳; 吴宜林; 刘凤英; 张志胜; .转化生长因子TGF-β1在卵巢上皮性肿瘤中的表达及意义[J]. 中南大学学报(医学版), 2002,27(1): 26-
7. 唐涛; 罗团连; 黎杏群; 张花先; 梁清华; .脑溢安对脑出血大鼠脑内含铁血黄素氧合酶-1的影响[J]. 中南大学学报(医学版), 2002,27(1): 35-
8. 张花先; 黎杏群; 唐涛; 梁清华; 刘柏炎; 李霞玲; .脑溢安颗粒对脑出血大鼠脑组织bcl-2表达的影响 [J]. 中南大学学报(医学版), 2002,27(1): 38-

9. 肖岚; 黎杏群; 张花先; .脑溢安颗粒对脑出血大鼠脑内IL-6表达的影响[J]. 中南大学学报(医学版), 2002,27(2): 123-
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 11. 张宁; 肖波; 李静; 吴志国; 李国良; 周文斌; 梁静惠; 谢光洁.实验性自身免疫性肌炎中MMP-2,MMP-9,TIMP-1的表达及甲基强的松龙的影响[J]. 中南大学学报(医学版), 2003,28(1): 5-
 12. 赵素萍; .TrKA和p75神经营养因子受体在嗅神经母细胞瘤的表达[J]. 中南大学学报(医学版), 2003,28(1): 50-
 13. 黄凤英; 林秋华; 方小玲; 张志胜; 王新; .Bcl-2和Bax蛋白在子宫内膜异位症的表达[J]. 中南大学学报(医学版), 2003,28(2): 102-
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 15. 郑晖; 蒋海鹰; 颜亚晖; 冯德云; .内源性生物素对SP免疫组织化学结果的影响[J]. 中南大学学报(医学版), 2003,28(2): 195-
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