

临床研究

实时荧光定量PCR法检测EG-1在甲状腺乳头状癌组织中的表达及其临床意义

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摘要:

目的: 通过实时荧光定量PCR法检测内皮衍生基因-1(EG-1)的基因在甲状腺癌组织中的表达,探讨EG-1与甲状腺癌发生、发展的关系。方法: 选取38例甲状腺乳头状癌患者(病例组)和15例良性甲状腺疾病患者的甲状腺组织(对照组),采用实时荧光定量PCR法检测甲状腺组织中EG-1基因的表达,同时应用免疫组化法检测EG-1的表达水平。结果: 免疫组织化学结果显示,EG-1主要定位于癌细胞的细胞质,甲状腺乳头状癌组织中EG-1 mRNA和蛋白表达水平明显高于良性甲状腺疾病患者(P<0.05)。EG-1 mRNA表达与组织学分级有关(P<0.05),与性别、年龄无明显关联性(P>0.05)。结论: EG-1基因在甲状腺乳头状癌组织中表达明显增高,EG-1基因可能在甲状腺癌的发生、发展中起重要作用。

关键词: 实时荧光定量PCR 内皮衍生基因-1; 甲状腺肿瘤

Expression of EG-1 in human thyroid papillary carcinoma tissue detected by real-time quantitative PCR and its clinical significance

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Abstract:

Objective To detect the expression of endothelial derived gene-1 (EG-1) gene in thyroid papillary carcinoma tissue by real-time quantitative PCR and to investigate the relationship between EG-1 and the occurrence and development of thyroid papillary carcinoma. Methods Real-time quantitative PCR was used to detect

the expressions of EG-1 gene in 38 thyroid papillary carcinoma patients ( case group) and 15 thyroid adenoma patients (control group),and the expression level of EG-1 was detected by immunohistochemistry.

Results The expressions of EG-1 mRNA and protein in thyroid papillary carcinoma tissue were significantly higher than those in adenoma tissue (P<0.05).The expression of EG-1 mRNA had significant relationship with the pathological degree in thyroid cancer(P<0.05), but there was no correlation with the age and the gender of the patients(P>0.05).Conclusion The expression of EG-1 gene in thyroid papillary carcinoma tissue is obviously higher,EG-1 gene may be important in the occurrence and development of thyroid cancer.

Keywords: real-time quantitative polymerase chain reaction endothelial derived gene-1 thyroid neoplasms

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