

论著

人乳头瘤病毒16 E6 与食管癌细胞核基质的关系

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收稿日期 2001-9-29 修回日期 2001-12-3 网络版发布日期:

摘要 目的: 观察HPV-16 E6 和食管癌细胞核基质的关系, 以探讨HPV 感染在食管癌变中的作用。方法: 2 株食管癌细胞系, EC/ CUHK1 和EC/ CUHK2, 用于本实验。PCR 扩增核基质相关的HPV-16 E6 亚基因片段, RT-PCR 和免疫细胞化学染色观察了E6 亚基因在癌细胞内的表达。结果: EC/ CUHK2 细胞的HPV-16 E6 亚基因片段存在于核基质相关DNA 中, E6 癌蛋白位于核基质组分内; 而EC/ CUHK1 细胞的结果均为阴性。结论: HPV-16 E6 和核基质的相互作用有助于病毒导致的食管癌发生。

关键词 [食管癌](#) [核基质](#) [人乳头瘤病毒](#)

THE RELATION BETWEEN HUMAN PAPILOMAVIRUS 16 E6 AND NUCLEAR MATRIX OF

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Abstract Purpose : To explore the etiologic role of HPV infection in esophageal carcinoma , the association of HPV-16 E6 with the nuclear matrix of carcinoma cells was investigated. Methods : Two esophageal carcinoma cell lines , EC/ CUHK1 and EC/ CUHK2 , were tested for HPV-16 E6 subgenic fragment by using polymerase chain reaction amplification of virus DNA associated nuclear matrix. RT-PCR and immunocytochemistry were used to visualize the expression of E6 subgene in the cells. Results : The HPV-16 E6 subgenic fragment were found to be present in nuclear matrix-associated DNA , E6 oncoprotein localized in the nucleus where it tightly associate with nuclear matrix after sequential extraction in EC/ CUHK2 cells. This phenomenon was not detected , however , in EC/ CUHK1 cells. Conclusion : The interaction between HPV-16 E6 and nuclear matrix may contribute to the viral induced carcinogenesis in esophageal carcinoma cell line EC/ CUHK2.

Keywords [esophageal carcinoma](#) [nuclear matrix](#) [human papillomavirus](#)

DOI

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