

论文

PTEN、E-cd 和MMP-9在人脑胶质瘤的表达和意义

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摘要:

目的 通过分析PTEN、E-cd和MMP-9在人脑胶质瘤中的表达,为胶质瘤的靶分子治疗提供依据。方法 采用免疫组织化学方法检测50例人脑胶质瘤和11例正常脑组织中的PTEN、E-cd蛋白和MMP-9的表达。分析人脑胶质瘤组织学分级之间的PTEN、E-cd蛋白和MMP-9的表达关系及胶质瘤与正常脑组织之间的PTEN、E-cd蛋白和MMP-9的表达关系,并探讨其临床意义。结果 PTEN、E-cd在正常脑组织中的阳性表达为100%,PTEN在 I~II级和III~IV级胶质瘤中阳性表达率分别为75%和38%,组织学分级之间有显著差异(P<0.05),与对照组之间差异有统计学意义(P<0.05);E-cd在 I~II级和III~IV级胶质瘤中阳性表达率分别为42%和23%,组织学分级之间差异无统计学意义(P>0.05),与对照组之间差异有统计学意义(P<0.05);MMP-9在对照组阳性表达率为14%,在脑胶质瘤 I~II级为33%,III~IV级为62%,两者比较差异有统计学意义(P<0.05);对照组与神经胶质瘤组相比,MMP-9表达差异有统计学意义(P<0.05)。结论 PTEN、E-cd、MMP-9在神经胶质瘤的生物学行为中起重要作用,且可能与其侵袭性有关。

关键词: 胶质瘤; 抑癌基因PTEN; E-钙粘附素(E-cd); 基质金属蛋白酶9

Expression and significance of PTEN, E-cd and MMP-9 in human glioma

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Abstract:

Objective To investigate expressions of tumor suppressor PTEN, E-cadherin(E-cd)and matrix metalloproteinase-9(MMP-9)in human glioma and to elucidate its clinical significance. Method Immunohistochemical staining was used to detect expressions of PTEN, E-cd and MMP-9 in 50 cases of human glioma and 11 of normal brain tissues. Results In normal brain tissues, the positive rates of E-cd and PTEN were 100% and of MMP-9 was 14%. The positive rate of PTEN in glioma was lower than that in the control group(P<0.05), and the positive rate of PTEN in low grade glioma was higher than that in high grade glioma (75% vs. 38%, P<0.05). The positive rate of E-cd in glioma was lower than that in the control group(P<0.05), but there was no significant difference between low grade glioma and high grade glioma (42% vs. 23%, P>0.05). The positive rate of MMP-9 in glioma was higher than that in the control group(P<0.05), and there was significant difference between low grade glioma and high grade glioma (33% vs. 62%, P<0.05). Conclusion PTEN, E-cd and MMP-9 play important roles in the biological behavior of glioma, which may be related to invasiveness.

Keywords: Glioma; Suppressor PTEN; E-cadherin; Matrix metallo proteinase-9

收稿日期 2009-10-21 修回日期 网络版发布日期

DOI:

基金项目:

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