

CNE1、CNE2鼻咽癌细胞株中ATM/PI 3K区基因突变的检测 Study on Mutation of ATM/PI 3K Region in NPC Cell Lines with Different Radiosensitivity

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摘要 为了探讨具有不同放射敏感性的CNE1、CNE2鼻咽癌细胞株中ATM/PI3K区基因突变的情况,采用反转录聚合酶链式反应(RT-PCR)技术和PCR产物直接测序方法(荧光标记的ddNTPs循环测序),对CNE1、CNE2中ATM的PI3K关键区域进行突变检测。结果表明,所测CNE1、CNE2中的ATM/PI3K区序列中没有发生突变,认为鼻咽癌细胞株CNE1、CNE2间内在的放射敏感性的差异可能与ATM/PI3K区基因突变不相关。

Abstract:To try to elucidate the relationship between the radiosensitivity of NPC cell lines and ATM gene,this study was designed to investigate the mutation of ATM/PI3K region in NPC cell lines with different radiosensitivity.Two NPC cell lines of CNE1 and CNE2 with different radiosensitivities were established.Reverse transcriptase polymerase chain reaction (RT-PCR) was used to get a 546bp fragment (8578nt~9123nt) of ATM cDNA,containing the PI-3 kinase domain (8753~8815bp).Direct sequencing of RT-PCR product was applied to determine the mutations in the gene.The sequence of the 546bp fragment is identical to the sequence of ATM gene published in GenBank,that is,there are no any mutations on the fragment of ATM/PI3K we examined either in CNE1 or in CNE2.It indicates that there may be no correlations between the mutation of ATM/PI3K and the variation of radiosensitivity in NPC cell lines CNE1,CNE2.

关键词 [鼻咽癌](#) [ATM](#) [放射敏感性](#) **Key words** [nasopharyngeal carcinoma](#) [ATM](#) [radiosensitivity](#)

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