

Reduction of p120ctn isoforms is significantly associated with lymph node metastasis of lung cancer

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摘要

Background and objective p120ctn plays an important role in cell adhesion and has a significant association with tumorigenesis. To investigate the expression of p120ctn (p120 cateinin) isoforms in lung squamous cell carcinomas and adenocarcinomas, and analyze the correlation between p120ctn and clinicopathological parameters. Methods The expression patterns of p120ctn in lung cancer tissues and the corresponding normal lung tissues were examined by reverse transcription-polymerase chain reaction (RT-PCR). Immunofluorescence, RT-PCR, and Western blot were used to investigate the expression of p120ctn isoforms in lung cancer cell lines BE1 and LH7. Results Compared with corresponding normal lung tissues, lung cancer tissues have significantly lower levels of total mRNA, isoform1 and 3 mRNA ($P < 0.001$, $P < 0.001$, $P = 0.001$). Furthermore, reduction of p120ctn isoform 1 mRNA is negatively associated-whereas p120ctn isoform 3 is positively associated-with lymphatic metastasis ($P = 0.01$, $P = 0.029$). BE1 cells with 94% metastatic frequency has lower levels of p120ctn isoforms than LH7 cells with low metastatic potential. Conclusion Reductions of p120ctn isoform 1 and 3 mRNA is a common phenomenon in lung cancer tissues and may play a role in metastasis progression of human lung cancer.

关键词

p120ctn; Lung neoplasms; Metastasis

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