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Expression of DLL4 and VEGF in Lung Adenocarcinoma and their Relationship with Angiogenesis in Tumor

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摘要

Background and objective Angiogenesis depends on the interaction of a variety of promoting factors and inhibiting factors. Vascular endothelial growth factor (VEGF) and Notch signaling pathway take part in this process. This experiment investigates the expression of Notch ligand DLL4 and VEGF in lung adenocarcinoma and their relationship with angiogenesis in tumor. Methods Immunohistochemical method was used to detect DLL4, VEGF and CD34 protein expression in 80 cases of lung adenocarcinoma (including bronchioloalveolar carcinoma and common lung adenocarcinoma) paraffin section tissues. Results The expression of DLL4 and VEGF was closely related to tumor diameter, clinical stage, histological grade and lymph node metastasis, the VEGF expression rate in DLL4 positive expression cases was significantly more than the DLL4 negative cases, the correlation between microvascular density and DLL4, VEGF co-expression was more significant, the expression of DLL4 in common lung adenocarcinoma was significantly higher than that in bronchioloalveolar carcinoma. Conclusion The prognosis of lung adenocarcinoma is significant correlated with the angiogenesis, high expression of DLL4 is closely related to the metastasis and the prognosis.

关键词

Human DLL4 protein; Vascular Endothelial Growth Factor A; CD34 Antigen; Lung neoplasms; Immunohistochemistry

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