

论著

核转录因子FOXP3在肺癌组织中的表达及意义

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摘要 目的: 检测核转录因子FOXP3在不同病变肺组织中的表达,分析CD4+ CD25+ 调节性T细胞在不同病变肺组织中的浸润情况,并进一步探讨不同病理类型的肺癌组织中FOXP3表达的异同。

方法: 使用RT-PCR及Western blotting方法,检测21例肺癌、7例支气管扩张、5例炎性假瘤、3例结核球以及15例病灶旁手术切除正常肺组织共153份标本中FOXP3 mRNA及蛋白的表达。

结果: 肺癌、肺良性病变及病灶旁正常肺组织FOXP3 mRNA及蛋白的表达阳性分别为41/63、8/45、0/45 (P<0.05),肺癌与肺良性病变组织均有FOXP3 mRNA及蛋白表达,分析其平均吸光度A值之间有显著差异 (P<0.01)。病灶旁正常肺组织FOXP3 mRNA及蛋白无表达。不同病理类型肺癌组织中均有FOXP3 mRNA及蛋白的表达,分析其平均吸光度A值之间无显著差异 (P>0.05)。

结论: FOXP3可作为CD4+ CD25+ 调节性T细胞的一种标志物。肺癌与肺良性病变组织均有FOXP3 mRNA及蛋白表达,FOXP3在肺癌组织中表达强于肺良性病变组织。

关键词 [CD4+CD25+调节性T细胞](#); [肺肿瘤](#); [转录因子FOXP3](#)

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Expression of FOXP3 in human lung cancer tissue and its biological role

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Abstract

<P>AIM: To localize the expression of forkhead/winged helix transcription factor (FOXP3) gene in different types of pathological lung tissues and explore its biological role in pathogenesis of human lung cancer.
METHODS: By using RT-PCR and Western blotting, the expressions of FOXP3 mRNA and related protein in 153 samples including lung cancer (n=63), lung benign lesion (n=45) and normal lung tissues (n=45) were analyzed.
RESULTS: The positive expressions of FOXP3 mRNA and its protein were observed in lung cancer and in benign lesion lung tissue samples with significant difference (P<0.01). No positive expression of FOXP3 in normal lung tissue and in the tissues closing to benign lesions was observed. All pathological types of lung cancer tissues showed positive expression of FOXP3 mRNA and its protein without significant difference in the expression levels (P>0.05).
CONCLUSION: FOXP3 is a biomarker of CD4+CD25+ regulatory T cell. They are expressed both in lung cancer and benign lesion lung tissues, but not in normal lung tissue. The expression of FOXP3 is more intensive in cancer tissues than that in benign lesions. </P>

Key words [CD4+CD25+ regulatory T cells](#) [Lung neoplasms](#) [Transcription factor FOXP3](#)

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