



# 肿瘤防治研究

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## p53基因突变对非小细胞肺癌TSG101/MDM2信号通路的影响

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### Effect of Gene Mutation of p53 in Lung Cancer on TSG101/MDM2 Signal Passway

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- 摘要
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全文: PDF (1023 KB) HTML (0 KB) 输出: BibTeX | EndNote (RIS) 背景资料

**摘要** 目的探讨p53基因突变在肺癌中对TSG101/MDM2信号通路影响的临床病理学意义。方法采用免疫组织化学方法检测185例肺癌组织标本中TSG101、MDM2及p53的表达,用聚合酶链反应单链构象多态性(Polymerase Chain Reaction ,single-strand conformation polymorphism, PCR-SSCP)分析法检测p53突变情况,以及Western blot检测TSG101在肺癌组织和正常肺组织中的表达。结果(1)肺癌组中p53蛋白的总阳性率为80.54%(149/185),PCR-SSCP检测结果显示总突变率为56.67%(17/30),p53蛋白表达与病理分期、淋巴结转移有相关性( $P<0.05$ );TSG101蛋白的低表达率为58.92%(109/185),Western blot结果显示TSG101在癌组织中的表达明显低于对照组( $P<0.05$ ),TSG101蛋白表达与病理分期、分化、淋巴结转移有相关性( $P<0.05$ );MDM2蛋白的过表达率为77.84%(144/185),MDM2蛋白表达与病理分期、淋巴结转移有相关性( $P<0.05$ )。(2)在p53阳性的149例中TSG101阳性76例,MDM2阳性139例,在p53阴性的36例中TSG101阳性33例,MDM2阳性5例。p53与TSG101两者共表达率为41.08%,一致性为42.70%。p53与MDM2两者共表达率为75.14%,一致性为91.89%。结论(1)p53/MDM2上调与TSG101表达下调肺癌的发生及生物学行为有关。(2)当p53突变时,TSG101与MDM2的表达呈负相关关系。

**关键词:** 肺癌 p53 TSG101 MDM2 免疫组织化学 Western blot PCR-SSCP

**Abstract:** Objective To explore the clinical pathology effect of gene mutation of p53 in lung cancer on TSG101/MDM2 signal passway. Methods Immunohistochemical method was adopted to detect the expression of TSG101, MDM2 and p53 in lung cancer tissues of 185 cases. PCR-SSCP was used to detect the gene mutation of p53. Western blot method was adopted to detect the expression of TSG101 in tumor tissues and normal tissues. Results (1) The overall positive rate of p53 protein in the group of cancer was 80.54%(149/185). The result of PCR-SSCP showed that the overall mutation rate was 56.67%(17/30). The expression of p53 protein had correlation with the stages of pathology and the lymph node ( $P<0.05$ ). The low expression rate of TSG101 protein was 58.92%(109/185). The result of Western blot showed that the expression of TSG101 in the group of cancer tissues was significantly lower than that in the control group ( $P<0.05$ ). The expression of TSG101 protein had correlation with the stages of pathology, differentiation and lymph node metastasis ( $P<0.05$ ). The excess expression rate of MDM2 protein was 77.84%(144/185). The expression of MDM2 protein had correlation with the stages of surgery pathology and lymph node metastasis ( $P<0.05$ ). (2) There were 76 cases of TSG101 positive and 139 cases of MDM2 positive in the 149 cases p53 positive, respectively. There were 3 cases of TSG101 negative and 31 cases of MDM2 negative in the 36 cases of p53 negative, respectively. The altogether expression rate was 91.89%. Conclusion (1) The up-regulated expression of p53/MDM2 and decline of TSG101 have correlation with the occurrence of lung cancer and its biology behavior. (2) When p53 gene is mutation, the expression of TSG101 and MDM2 is negative correlation.

**Key words:** Lung cancer p53 TSG101 MDM2 Immunohistochemistry Western blot PCR-SSCP

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- [1] 王小莉;龚兴牡. Trx-1和COX-2在非小细胞肺癌中的表达及意义[J]. 肿瘤防治研究, 2012, 39(2): 166-168.
- [2] 杭晓声;史央;李丽;项方;时宏珍. 树突状细胞免疫治疗晚期非小细胞肺癌的临床观察[J]. 肿瘤防治研究, 2012, 39(2): 205-209.
- [3] 张冠军;梁华;王春宝;张学斌;王一理. NDRG-1及MMP-7在肾细胞癌中的表达及意义[J]. 肿瘤防治研究, 2012, 39(1): 54-58.
- [4] 孙建建;李胜棉;赵松;李光辉;王小玲. Survivin和Caspase-3在胰腺癌组织中的表达及与预后的关系[J]. 肿瘤防治研究, 2012, 39(1): 62-67.
- [5] 杨光华;赵晶;李磊;王天阳;张小艳;吕春秀;王凤安. BAG-1在大肠癌中的表达及其临床意义[J]. 肿瘤防治研究, 2012, 39(1): 71-74.
- [6] 张华;冯卫能;邓燕明;冼海兵. 培美曲塞联合顺铂一线治疗晚期非鳞状非小细胞肺癌的疗效观察[J]. 肿瘤防治研究, 2012, 39(1): 88-90.
- [7] 王力军;冯济龙. 三维适形放疗联合小剂量顺铂治疗老年非小细胞肺癌的疗效观察[J]. 肿瘤防治研究, 2012, 39(1): 85-87.
- [8] 童皖宁;张军;卓安山;曹玉书. 伽玛刀联合培美曲塞/卡铂同步治疗局部晚期非小细胞肺癌的临床观察[J]. 肿瘤防治研究, 2012, 39(1): 81-84.
- [9] 张金标;郑航;尤长宣;何本夫;罗荣城. 肿瘤标志物CEA和CYFRA21-1在晚期肺癌中的临床价值[J]. 肿瘤防治研究, 2012, 39(1): 98-99.
- [10] 于秀文;李姗姗;孙玉荣;王显艳;张春庆. 胃癌发生不同阶段E-cadherin和TCF4的联合检测及其对胃癌Lauren's分型的意义[J]. 肿瘤防治研究, 2011, 38(9): 1031-1034.
- [11] 周英琼;肖胜军;侯巧燕;莫文法. TGF- $\beta$ 1及其信号转导通路分子在鼻咽癌组织芯片中的表达及意义[J]. 肿瘤防治研究, 2011, 38(9): 1023-1027.
- [12] 申兴斌;段惠佳;赵杨;张古林. 垂体肿瘤转化基因在大肠正常黏膜、腺瘤及大肠癌组织中的表达及意义[J]. 肿瘤防治研究, 2011, 38(9): 1042-1045.
- [13] 阿迪力·萨来;帕提古力·阿尔西丁;刘翼;张国庆;庞作良. 新辅助化疗对局部晚期非小细胞肺癌术后生存率的影响[J]. 肿瘤防治研究, 2011, 38(9): 1058-1061.
- [14] 杨凯;贺兼斌;张平. 白藜芦醇对小鼠Lewis肺癌细胞生长的抑制作用及其机制[J]. 肿瘤防治研究, 2011, 38(8): 871-874.
- [15] 靳福鹏;张梅;李平;张锋利;闫安. 益气养阴解毒方含药血清对Lewis肺癌细胞增殖及凋亡影响的体外实验[J]. 肿瘤防治研究, 2011, 38(8): 866-870.