

论著

ADAMTS-2及TGF- β 1在肝硬化组织中的表达

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摘要:

目的:检测含I型凝血酶敏感蛋白模体的解整合素样金属蛋白酶(a disintegrin and metalloprotease with thrombospondin motif, ADAMTS)-2及转化生长因子(transforming growth factor, TGF)- β 1在肝硬化组织中的表达,探讨ADAMTS-2与TGF- β 1在肝硬化发生和发展中的作用。方法:收集武汉总医院2010年3月至6月肝硬化门静脉高压症患者的肝组织16例及外伤性肝破裂正常肝组织8例作为正常对照组。采用免疫组织化学及Western印迹法检测ADAMTS-2及TGF- β 1在肝硬化组织及正常组织中的表达。结果:免疫组织化学结果显示肝硬化组织中ADAMTS-2和TGF- β 1表达较正常肝组织明显增高($P<0.05$)。Western印迹分析亦显示ADAMTS-2及TGF- β 1在肝硬化组织中表达强度明显高于正常组织($P<0.05$),而且两者的表达呈正相关($r=0.862$, $P<0.01$)。结论:ADAMTS-2和TGF- β 1可能存在协同致肝纤维化作用。

关键词: ADAMTS TGF- β 1 肝硬化 Western印迹 免疫组织化学

Expression of ADAMTS-2 and TGF- β 1 in cirrhotic liver

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Abstract:

Objective: To explore the expression and distribution of a disintegrin and metalloprotease with thrombospondin motif (ADAMTS)-2 and transforming growth factor (TGF)- β 1 in patients without cirrhosis, and to determine their relation.

Methods: The liver tissues from 16 patients with cirrhotic portal hypertensive and 8 patients with liver injury were collected in Wuhan General Hospital from March to June, 2010. Immunohistochemistry and Western blot were applied to detect the protein expression of ADAMTS-2 and TGF- β 1.

Results: Immunohistochemistry showed that the expression of ADAMTS-2 and TGF- β 1 was significantly higher in the cirrhotic tissues than that in normal tissues ($P<0.05$). Western blot also showed the expression of ADAMTS-2 and TGF- β 1 in the cirrhosis tissues was significantly higher than that in normal tissues ($P<0.05$). There was a positive correlation between ADAMTS-2 and TGF- β 1 ($r=0.862$, $P<0.01$).

Conclusion: ADAMTS-2 and TGF- β 1 may have a synergistic reaction in promoting liver cirrhosis.

Keywords: a disintegrin and metalloprotease with thrombospondin motif-2 (ADAMTS-2) transforming growth factor- β 1 liver cirrhosis Western blot immunohistochemistry

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