



## 锰超氧化物歧化酶在大肠癌中的表达及临床病理相关性分析

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## Expression of Manganese Superoxide Dismutase in Colorectal Carcinoma and Its Relationship with Clinicopathological Findings

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摘要

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**摘要 目的** 探讨锰超氧化物歧化酶(MnSOD)在大肠癌组织中的表达及其临床病理学意义。**方法** 采用免疫组织化学方法检测25例大肠癌、大肠腺瘤、癌旁组织中MnSOD表达及细胞定位,比较大肠癌、癌旁组织、大肠腺瘤中MnSOD的阳性率;RT-PCR方法检测20例大肠癌及癌旁组织,10例大肠腺瘤中MnSOD的水平,比较大肠癌、癌旁组织和大肠腺瘤中MnSOD mRNA相对表达量,分析大肠癌组织中MnSOD表达水平与各临床参数之间的关系。**结果** 大肠癌组织、大肠腺瘤组织及癌旁正常大肠组织中MnSOD表达率分别为76%、44%及16%,大肠癌中MnSOD表达率显著高于癌旁正常大肠组织和大肠腺瘤组织( $P < 0.05$ )。**结论** MnSOD可能在大肠癌发生、发展中发挥作用,有望成为大肠癌潜在的生物标志物。

**关键词:** 结肠直肠癌 锰超氧化物歧化酶 免疫组织化学 实时定量逆转录聚合酶链反应

**Abstract:** Objective To explore the expression of manganese superoxide dismutase (MnSOD) in colorectal carcinoma and its relationship with the clinicopathological findings. Methods The expressions of MnSOD in colorectal carcinoma, adenoma, and adjacent corresponding intestinal mucosal tissues were detected by immunohistochemistry and reverse transcription-polymerase chain reaction (RT-PCR). The relationship between MnSOD expression level in colorectal adenoma and clinical parameters was analyzed. Results The expression of MnSOD was negative in adjacent corresponding colorectal tissues. The positive expression rate of MnSOD was 44% (11/25) in colorectal adenoma and 76% (19/25) in colorectal carcinoma ( $P < 0.05$ ). Conclusion The expression of MnSOD may be associated with the carcinogenesis and progression of colorectal carcinoma, and therefore may be used as a new biomarker.

**Keywords:** colorectal neoplasia manganese superoxide dismutase immunohistochemistry reverse transcription-polymerase chain reaction

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