

# 蛋白激酶CK2B在食管癌中的表达及其临床意义([点击查看pdf全文](#))

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Title: Effect of casein kinase2B in esophageal carcinoma and its clinical significance

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摘要: 目的探讨蛋白激酶CK2B在食管癌组织中的表达及其在食管癌发生发展中的临床意义。方法采用免疫组化方法检测含60对食管癌及其癌旁正常粘膜组织芯片中CK2B的表达水平。同时收集南方医院胸外科2012年2~4月期间手术切除的食管组组织标本10例,并提取蛋白和RNA,通过Western blot和实时荧光定量PCR的方法检测其CK2B的表达变化。结果CK2B在食管癌组织中表达为:1.79%表达阴性,1.79%表达弱阳性,10.71%表达中阳性,85.71%表达强阳性;而正常粘膜组织96.67%表达阴性,3.33%弱阳性。CK2B在肿瘤及癌旁正常组织中阳性表达的分布有显著差异( $P<0.001$ )。CK2B蛋白在食管癌中的表达水平与TNM分期显著相关( $P=0.010$ )。Western blot及荧光定量PCR同样证实了食管癌组织中的蛋白激酶CK2B的表达水平明显升高。结论蛋白激酶CK2B的表达与食管癌的发生发展及其恶性程度显著相关。

Abstract: Objective To investigate the expression of casein kinase2B in esophageal carcinoma tissues and analyze its clinical significance. Methods The expression of CK2B in tissue chip containing 60 normal esophageal mucosa and 60 colorectal cancer specimens were detected immunohistochemically. Ten human esophageal carcinoma and adjacent normal tissues were examined for the expression of CK2B protein and mRNA using Western blotting and real-time quantitative PCR, respectively. Results A strong expression of CK2B was found in 85.71% of the esophageal cancer tissues; 1.79% of the cancer tissues were negative for CK2B expression, and 1.79% and 10.71% of the cancer tissues were weakly and moderately positive, respectively. In the normal mucosal tissues, 96.67% of the tissues were negative for CK2B and 3.33% showed weak CK2B expression, showing a significant difference in the distribution of CK2B between normal and esophageal carcinoma tissues ( $P<0.001$ ). The expression level of CK2B in esophageal cancers was associated with the pathological

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stage(TNM)(P=0.010). Western blotting and real-time quantitative PCR also confirmed an increased CK2B expression in the esophageal cancer tissues. Conclusion The high expression of protein kinase CK2B is closely related to the carcinogenesis and malignancy of esophageal cancer.

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