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胃癌组织中c-Met的表达及其临床意义 [点此下载全文](#)

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摘要:

目的: 研究c-Met在胃癌组织中的表达及其临床意义。方法: 收集2011年1月至2011年12月盐城市第一、三人民医院外科接诊、手术切除并经病理证实的胃癌石蜡标本69例, 另取同期胃黏膜不典型增生组织标本20例以及正常胃黏膜标本20例作对照。采用免疫组织化学法检测胃癌组织中c-Met蛋白的表达, 采用real-time PCR法检测15例手术切除的胃癌和癌旁组织中c-Met mRNA的表达。采用Spearman秩相关分析评估c-Met蛋白与胃癌标志物骨桥蛋白 (osteopontin, OPN)、基质金属蛋白酶 (matrix metalloproteinase, MMP) 表达的关系。结果: c-Met蛋白在胃癌组织中的阳性表达率为65.2%, 明显高于胃黏膜不典型增生组织 (30%) 及正常胃黏膜组织 (20%, 均 $P < 0.01$ ); c-Met蛋白表达与胃癌的淋巴结转移、临床TNM分期相关 ( $P < 0.01$ )。胃癌组织中c-Met mRNA的表达显著高于正常胃黏膜组织 [ $(0.20 \pm 0.12)$  vs  $(0.03 \pm 0.02)$ ],  $P < 0.01$ ]。OPN、MMP-9蛋白的表达与胃癌的浸润、临床TNM分期、淋巴结转移相关, 且c-Met蛋白的表达与OPN、MMP-9的表达呈正相关 ( $P < 0.05$ )。结论: c-Met在胃癌组织中高表达, 在胃癌的发生、发展过程中具有重要的作用, 与OPN、MMP-9可能存在一定的协同性

关键词: [胃癌](#) [原癌基因](#) [c-Met](#) [骨桥蛋白](#) [基质金属蛋白酶](#)

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Abstract:

Objective: To investigate the expression of c-Met in gastric cancer tissues and its clinical significance. Methods: Sixty-nine gastric cancer samples confirmed pathologically by Yancheng First People's Hospital and Third People's Hospital were collected from surgical resection during January 2011 to December 2011. The corresponding 20 atypical hyperplasia and 20 normal gastric mucosa specimens were selected as controls. Immunohistochemistry assay was used for detecting protein expression of c-Met in gastric cancer tissues. Real-time PCR was used to detect the expression of c-Met mRNA in 15 cases of resected gastric cancer tissues and their adjacent tissues. The relationship between the expression of c-Met and gastric cancer markers osteopontin (OPN) and matrix metalloproteinase (MMP) was examined by Spearman rank correlation test. Results: The positive expression rate of c-Met protein was 65.2% in the gastric cancer tissues, which was significantly higher than that in atypical hyperplasia tissues (30%) and in the normal gastric mucosa tissues (20%, both  $P < 0.01$ ). The expression of c-Met protein was closely correlated to the lymph node metastasis and TNM stage of gastric cancer ( $P < 0.01$ ). The expression of c-Met mRNA in gastric cancer tissues was significantly higher than that in normal gastric mucosa specimens ( $[0.20 \pm 0.12]$  vs  $[0.03 \pm 0.02]$ ),  $P < 0.01$ ). The protein expressions of OPN and MMP-9 were positively correlated to the invasive depth, TNM stage and lymph node metastasis of gastric cancer. Moreover, the protein expression of c-Met was positively correlated to that of OPN and MMP-9 ( $P < 0.05$ ). Conclusion: High expression of c-Met is found in gastric cancer tissues, which play an important role in the development and progression of gastric cancer. c-Met may show a synergic effect with OPN and MMP-9 in gastric cancer.

Keywords: [gastric cancer](#) [proto-oncogene](#) [c-Met](#) [osteopontin](#) [matrix metalloproteinase](#)

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