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摘要:

目的: 探讨胃癌组织中烯醇化酶 α (enolase α , ENO1) 和肿瘤型丙酮酸激酶 (tumor M2 pyruvate kinase, M2 PK) 的表达、相互关系及其临床意义。方法: 取兰州大学第一医院2009年6月至2010年10月石蜡包埋胃组织标本78例, 其中胃癌55例, 胃溃疡组织23例。免疫组织化学法检测胃癌组织和胃溃疡组织中ENO1、M2 PK的表达, 分析两者的相互关系及临床意义。结果: 胃癌组织中ENO1阳性表达率为67.3% (37/55), 明显高于胃溃疡组织的30.4% (7/23) ($P < 0.01$); ENO1表达与胃癌分化程度、浸润深度、淋巴结转移及TNM分期均相关 (均 $P < 0.05$); M2 PK在胃癌组织中的阳性表达率为78.2% (43/55), 明显高于胃溃疡组织的39.1% (9/23) ($P < 0.01$), M2 PK表达与胃癌分化程度、浸润深度相关 (均 $P < 0.05$)。胃癌组织中ENO1与M2 PK的表达呈正相关 ($r = 0.5729$, $P < 0.05$)。结论: 胃癌组织ENO1和M2 PK的表达上调与胃癌的发生、发展可能有关, 联合检测该两种蛋白在胃癌组织中的表达对判断预后有一定意义。

关键词: [胃癌](#) [烯醇化酶 \$\alpha\$](#) [肿瘤型丙酮酸激酶](#) [免疫组化](#)

Expression of enolase α and tumor M2 pyruvate kinase in gastric cancer and their clinical significances [Download Fulltext](#)

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Abstract:

Objective: To investigate the expression, correlation and clinicopathological significance of enolase α (ENO1) and tumor M2 pyruvate kinase (M2 PK) in gastric cancer. Methods: Seventy eight paraffin embedded specimens of gastric tissues (55 gastric cancer and 23 gastric ulcer tissues) from the First Hospital of Lanzhou University (Jun. 2009 to Oct. 2010) were included in the present study. Expression of ENO1 and M2 PK in gastric cancer and gastric ulcer tissues were detected by S-P immunohistochemistry. Correlation between ENO1 expression and M2 PK expression, and its implication in the clinicopathologic features of gastric cancer were analyzed. Results: The positive expression rate of ENO1 in gastric cancer tissues was significantly higher than in gastric ulcer tissues (67.3% vs 30.4%, $P < 0.01$), and positively related to differentiation grade, depth of invasion, lymph node metastasis and TNM staging (all $P < 0.05$). The positive expression rate of M2 PK in gastric cancer tissues was significantly higher than in gastric ulcer (78.2% vs 39.1%, $P < 0.01$), and positively related to differentiation grade ($P < 0.05$), depth of invasion (all $P < 0.05$). Expression of ENO1 was positively correlated to that of M2 PK ($r = 0.5729$, $P < 0.05$). Conclusion: The up regulated expression of ENO1 and M2 PK may participate in the oncogenesis and progression of gastric cancer. Combined detection of ENO1 and M2 PK in gastric cancer tissues may be helpful in evaluating the prognosis of gastric cancer.

Keywords: [gastric cancer](#) [enolase \$\alpha\$](#) [tumor M2 pyruvate kinase](#) [immunohistochemistry](#)

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