Expressions of Src homology 2 domain-containing phosphatase and its clinical significance in laryngeal carcinoma

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ABSTRACT. We investigated the expression of Src homology 2 domain-containing phosphatase (SHP-2) in laryngeal carcinoma and its clinical significance. Expression of SHP-2 was detected by immunohistochemical staining in normal mucosal tissues and various grades of laryngeal carcinoma. We looked for possible correlations between expression of SHP-2 in laryngeal carcinoma and clinical staging and lymph node metastasis. Immunohistochemical staining results revealed that the SHP-2 expression was significantly higher (88.24%) in laryngeal carcinoma than in normal mucosal tissue (25%). Additionally, the expression of SHP-2 was significantly correlated with lymph node metastasis, but not with clinical stage and gender of patients with laryngeal carcinoma. Therefore, SHP-2 may be useful as a prognostic marker for laryngeal carcinoma and as a therapeutic target in laryngeal carcinoma treatment.

Key words: Src homology 2 domain-containing phosphatase (SHP-2); Laryngeal carcinoma; Immunohistochemistry