

## عنوان مقاله:

Biological and Clinicopathological Significance of Cripto-1 Expression in the Progression of Human ESCC

## محل انتشار:

مجله گزارش های بیوشیمی و زیست شناسی مولکولی، دوره 5، شماره 2 (سال: 1396)

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## خلاصه مقاله:

Background: Human Cripto-1, a member of the EGF-CFC family, is involved in embryonic development, embryonic stem cell maintenance, and tumor progression. It also participates in multiple cell signaling pathways including Wnt, Notch, and TGF- $\beta$ . Remarkably, it is expressed in cancer stem cell (CSC) compartments, boosting tumor cell migration, invasion, and angiogenesis. Although Cripto-1 is overexpressed in a variety of human malignant tumors, its expression in esophageal squamous cell carcinoma (ESCC) remains unclear. Our aim in this study was to evaluate the possible oncogenic role of Cripto-1 in ESCC progression and elucidate its association with clinicopathological parameters in patients. Methods: In this study, Cripto-1 expression in 50 ESCC tissue samples was analyzed and compared to corresponding margin-normal esophageal tissues using quantitative real-time PCR. Results: Cripto-1 was overexpressed in nearly 40% of ESCC samples compared with normal tissue samples. Significant correlations were observed between Cripto-1 expression and tumor differentiation grade, progression stage, and location ( $p < 0.05$ ). Conclusions: Our results indicate that overexpression of Cripto-1 is involved in the development of ESCC. Further assessment will be necessary to determine the role of Cripto-1 cross talk in ESCC tumorigenesis.

## کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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