

عنوان مقاله:

Prognostic significance of HOXD β protein expression in human ovarian cancers

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خلاصه مقاله:

Objective(s): Ovarian cancer is the most common gynecological malignancy, ranking as the fifth leading cause of cancer-related deaths among females in the United States. Homeobox D β (HOXD β) is a transcription factor belonging to the homeobox protein family, which plays a critical role in morphogenesis during embryo development. Here we aimed to study the HOXD β expression in ovarian serous carcinoma (OSC) and determine its clinical significance. Materials and Methods: Real-time quantitative PCR and immunohistochemistry targeting human OSC tissues and adjacent ovarian tissues were performed to correlate the patterns of HOXD β expression with clinical characteristics and survival outcomes. Cell lines and nude mice were used for verifying the role of HOXD β in OSC. Results: HOXD β protein was predominantly expressed in OSC tissues compared with nontumorous tissues. The correlation test demonstrated a significant correlation between HOXD β with tumor FIGO stage. Univariate and multivariate analyses found that HOXD β expression was associated with poorer overall survival. Furthermore, high expression of HOXD β protein was observed in OSC cell lines in vitro. Finally, the oncogenic effect of HOXD β was confirmed by cellular and xenograft experiments. Conclusion: HOXD β protein expression may be associated with a poorer prognosis in OSC. The unfavorable prognostic value of HOXD β in malignancies and its underlying mechanism .are worthy of further investigation

کلمات کلیدی:

Biomarker, Homeobox D β , Ovarian Neoplasms, Prognosis, Proliferation

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