Expression and localization of estrogen receptors in human renal cell carcinoma and their clinical significance

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Abstract:

This study aims to (1) evaluate the immunohistochemical expression of ERα, ERα36 and ERβ in combination in human renal cell carcinoma (RCC) and nearby non-tumorous tissue (2) correlate their expression pattern with the clinicopathological parameters and prognosis of the patients; this may provide a new insight into prediction of the disease outcome and understanding its progression. The three markers showed positive cytoplasmic (± membranous) staining pattern in tumor cells. The tubules in the nearby non-tumorous tissue showed either nuclear (± cytoplasmic) staining pattern (ERα and ERβ) or only cytoplasmic staining pattern (ERα36). The mean of cytoplasmic expression of ERα, ERα36 and ERβ was significantly higher in association with poor prognostic factors: larger tumor size (P

Keywords:

Renal cell carcinoma, ERα, ERα36, ERβ

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