

Interaction between cellular retinoic acid-binding protein II and histone hypoacetylation in renal cell carcinoma

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Abstract

Renal cell carcinoma is a rare but serious malignancy. Since a reduction in the level of retinoic acid receptor beta 2 (RARbeta2) expression in cancer cells due in part to histone hypoacetylation which is controlled by histone deacetylase (HD), the study on the interaction between cellular retinoic acid-binding proteins II (CRABP II), which is proposed to have its potential influence on retinoic acid (RA) response, and HD can be useful. Comparing to CARBP II and HD, the CARBP II-HD poses the same function and biological process as HD. This can confirm that HD has a significant suppressive effect on the expression of CARBP II. Therefore, reduction in the level of RARbeta2 expression in cancer cells can be expected and this can lead to failure in treatment of renal cell carcinoma with RA. The author hereby purpose that additional HD inhibitor should be added into the regiment of RA to increase the effectiveness of treatment.

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