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36~39.pEGFC1-IGFBP7诱导恶性黑素瘤SK-MEL-28 细胞的凋亡[J].陈嵘祎,樊翌明,涂亚庭,陈宏翔,沈 琴,许 莉.中国肿瘤

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pEGFC1-IGFBP7诱导恶性黑素瘤SK-MEL-28 细胞的凋亡 点此下载全文

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摘要:

目的:构建胰岛素样生长因子结合蛋白7(insulin like growth factor binding protein 7, IGFBP7)表达质粒(pEC瘤细胞SK-MEL-28凋亡的影响。方法:构建pEGFC1-IGFBP7质粒,并将pEGFC1-IGFBP7质粒及空质粒分别转染入SK-M率,Annexin-FITC/PI检测转染后SK-MEL-28细胞的凋亡。结果:成功构建pEGFC1 IGFBP7质粒,用Effectene试剂能料L-28细胞,转染效率达61%。流式细胞仪结果显示pEGFC1 IGFBP7可明显促进SK MEL 28细胞凋亡,转染24 h后的凋亡未转染组细胞凋亡率分别为(5.8±0.44)%和(6.4±0.71)%(F=406.138,P<0.05)。结论: pEGFC1-IGFBP7为IGFBP7为基础的黑素瘤基因治疗提供了实验依据。

关键词: 胰岛素样生长因子结合蛋白7(IGFBP7) 黑素瘤 SK-MEL-28细胞 凋亡

pEGFC1-IGFBP7 induces apoptosis of malignant melanoma cell line SK-MEL-28 Download Fulltext

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Abstract:

Objective: To construct the insulin like growth factor binding protein 7 (IGFBP7) expression plasmid (μ the effect of IGFBP7 on the apoptosis of SK MEL 28 (human malignant melanoma cell line) cells. Methods constructed; pEGFC1 IGFBP7 and empty plasmids were transfected into SK MEL 28 cells separately. The observed under fluorescence microscope. Apoptosis of SK MEL 28 cells after transfection was detected by Results: The pEGFC1 IGFBP7 plasmid was successfully constructed and was effectively transfected into reagent, with the transfection rate being 61%. The results of flow cytometry showed that pEGFC1 IGFBP apoptosis of SK MEL 28 cells, with the apoptotic rates of pEGFC1 IGFBP7, empty vector, and non transfer 2.57)%, (5.8 \pm 0.44)%, and (6.4 \pm 0.71)% 24 h after transfection, respectively ($_{\rm F}$ =406.138, $_{\rm P}$ < can effectively induce apoptosis of malignant melanoma SK MEL 28 cells, which provides an experime therapy of malignant melanoma.

Keywords: insulin like growth fator binding protein 7(IGFBP7) melanoma SK MEL 28 cell apoptosis

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