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155~160.Raf激酶抑制蛋白增强卵巢癌细胞的化疗敏感性[J].宋继文,高 燕,林璨璨,李宏钊,姚 智,邓为民.中国肿瘤生物治疗;

Raf激酶抑制蛋白增强卵巢癌细胞的化疗敏感性 点此下载全文

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摘要:

摘 要 目的:探讨Raf激酶抑制蛋白(Raf kinase inhibitor protein,RKIP)对卵巢癌SKOV-3细胞化疗敏感性的影基因的真核表达质粒pcDNA3.1-ssRKIP转染入SKOV-3细胞中,Western blotting检测SKOV-3细胞中RKIP蛋白的表达。胞,MTS法观察RKIP基因转染对顺铂处理后SKOV-3细胞增殖的影响,流式细胞仪检测RKIP基因转染对顺铂诱导SKOV-3细 3.1-ssRKIP转染的SKOV-3细胞RKIP表达明显升高。不同浓度顺铂处理细胞24、48、72 h后,RKIP基因转染细胞增殖抑2.5 μg/ml顺铂作用SKOV-3细胞24 h后,RKIP转染细胞的调亡率为(10.86±0.73)%,明显高于未转染细胞的(4.27:0.43)%(P<0.01);在无顺铂作用情况下,RKIP转染细胞的调亡率为(3.11±0.78)%,仍然高于未转染细胞的(1.5~±0.46)%(P<0.01)。细胞周期检测结果显示,RKIP转染细胞。0/G 1期的比例下降,S期的比例增加,转染的SKOV转染可以增加卵巢癌SKOV-3细胞对化疗药物顺铂的敏感性。

关键词: Raf激酶抑制蛋白 卵巢癌 顺铂 化疗敏感性

Raf kinase inhibitor protein enhances chemosensitivity of ovarian cancer cells

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Abstract:

Abstract Objective: To explore the effect of Raf kinase inhibitor protein (RKIP) on the chemosensitivil Methods: Eukaryotic expression plasmid pcDNA3.1-ssRKIP containing full-length human RKIP cDNA was to line SKOV-3 by lipofect assay. Expression of RKIP in SKOV-3 cells was determined by Western blotting an transfected SKOV-3 cells were treated with different concentrations of cisplatin, and the effect of RKIP or treated with cisplatin was measured by MTS assay. Flow cytometry was used to detect the effect of RKII cycle of SKOV-3 cells after cisplatin treatment. Results: The expression of RKIP in SKOV-3 cells was signified with pcDNA3.1-ssRKIP. The growth inhibitory rate of SKOV-3 cells in pcDNA3.1-ssRKIP transfection group in the control group after treatment with different concentrations of cisplatin for 24 h, 48h or 72 h (P<0.012.5 μ g/ml for 24 hours, pcDNA3.1-ssRKIP-transfected SKOV-3 cells showed a significantly higher percent than non-transfected cells (4.27 \pm 0.67)% and empty vector-transfected cells (4.02 \pm 0.43)%. Without cisploptosis for SKOV-3 cells transfected with pcDNA3.1-ssRKIP was (3.11 \pm 0.78)%, which was significantly transfected cells (1.51 \pm 0.13)% and empty vector-transfected cells (1.97 \pm 0.46)%. After cisplatin treatm O/G 1 phase and more cells in S phase in pcDNA3.1-ssRKIP-transfected cells compared with the control caused more S phase arrest in transfected cells. Conclusions: Over-expression of RKIP gene can increase SKOV-3 cells to cisplatin.

Keywords: Raf kinase inhibitory protein (RKIP) ovarian cancer cisplatin chemosensitivity

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