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Foxp3在神经细胞瘤细胞株SK-N-SH中的表达及其对化疗的敏感性 [点此下载全文](#)

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摘要:

摘要 目的: 研究神经细胞瘤细胞株SK-N-SH中Foxp3的表达及其对化疗药物环磷酰胺(cyclophosphamide, CTX)和吡柔比星(pirarubicin, THP)的敏感性。方法: 体外培养SK-N-SH细胞, 流式细胞术检测Foxp3在SK-N-SH细胞中的表达。MTT法检测化疗药物CTX、THP对SK-N-SH细胞的敏感剂量; 流式细胞术及real-time PCR检测CTX、THP对SK-N-SH细胞中Foxp3表达的影响。结果: 流式细胞术检测结果显示, SK-N-SH细胞高表达Foxp3分子。CTX作用于SK-N-SH细胞的敏感剂量为6 mmol/L, THP作用于SK-N-SH细胞的敏感剂量为80 ng/ml。6 mmol/L CTX或80 ng/ml THP以及两者的联合不能抑制SK-N-SH细胞中Foxp3的表达(P>0.05); real-time PCR结果也证实, CTX或THP以及两者的联合不能抑制SK-N-SH细胞中Foxp3 mRNA的表达。结论: 神经细胞瘤细胞株SK-N-SH高表达Foxp3蛋白, 但其表达对化疗药物CTX和THP不敏感。

关键词: [Foxp3](#) [神经细胞瘤](#) [SK-N-SH细胞](#) [环磷酰胺](#) [吡柔比星](#)

Foxp3 expression in neuroblastoma cell line SK-N-SH and its sensitivity to chemotherapy [Download Fulltext](#)

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Abstract:

Abstract Objective: To investigate Foxp3 expression in neuroblastoma cell line SK-N-SH and its chemosensitivity to cyclophosphamide (CTX) and pirarubicin (THP). Methods: SK-N-SH cells were cultured in vitro, and Foxp3 expression in SK-N-SH cells was examined by flow cytometry (FCM). The sensitive dosages of CTX and THP on SK-N-SH cells were determined by MTT assay. The effects of CTX or THP on Foxp3 expressions in SK-N-SH cells were examined by FCM and real-time PCR. Results: FCM results showed that SK-N-SH cells expressed high level of Foxp3. The sensitive dosage of CTX on SK-N-SH cells was 6 mmol/L, and that of THP was 80 ng/ml. CTX (6 mmol/L), THP (80 ng/ml) alone or in combination could not inhibit the expression of Foxp3 in SK-N-SH cells (P>0.05). Real-time PCR data also showed that CTX, THP alone or in combination could not down-regulate the expression of Foxp3 in SK-N-SH cells at mRNA level (P>0.05). Conclusion: Neuroblastoma SK-N-SH cells can express high level of Foxp3, but Foxp3 shows no chemosensitivity to CTX and THP.

Keywords: [Foxp3](#) [neuroblastoma](#) [SK-N-SH cell](#) [cyclophosphamide \(CTX\)](#) [pirarubicin \(THP\)](#)

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