

论著

过量表达ErbB2促进MCF-7细胞体外生长和侵袭

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摘要 目的: 研究过量表达ErbB2对于MCF-7细胞生长和侵袭的作用。方法: 构建带有ErbB2逆转录病毒, 感染MCF-7细胞, 检测ErbB2的表达。用转染后的细胞开展体外生长和侵袭实验。结果: 转染后ErbB2在MCF-7细胞中过量表达。体外生长和侵袭实验显示, 过量表达ErbB2的细胞增殖快、侵袭性强。结论: 过量表达ErbB2促进MCF-7细胞的生长和侵袭; 阻断ErbB2信号可能为高表达ErbB2的肿瘤治疗带来新的策略。

关键词 [基因,ErbB2](#); [MCF-7细胞](#); [细胞分裂](#); [侵袭](#)

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Overexpression of ErbB2 promotes growth and invasion in MCF-7 cells in vitro

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Abstract

AIM: To investigate the effects of ErbB2 overexpression on growth and invasiveness in cultured MCF-7 cell line. METHODS: Retrovirus containing ErbB2 gene was transfected into MCF-7 cells and ErbB2 expression was detected by Western blotting. Proliferation and invasive assays were carried out. Cells overexpressed ErbB2 and its control, AP2, were used in the experiment. RESULTS: ErbB2 was overexpressed in MCF-7 cells after transfection. In vitro, cells overexpressed ErbB2 showed highly proliferated and highly invasive characteristics compared to the control cells. CONCLUSION: Overexpression of ErbB2 promotes cell proliferation and enhances invasiveness in MCF-7 cells. Inhibition of signaling induced by ErbB2 might be a novel strategy for the therapeutics of cancer with ErbB2 overexpression.

Key words [Genes](#) [ErbB2](#) [MCF-7 cells](#) [Cell division](#) [Invasiveness](#)

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