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71-74. 骨髓间充质干细胞表达外源性IL-12对胶质瘤C6细胞增殖的影响[J]. 翟旭, 张弘, 霍晓川, 刘兴波. 中国肿瘤生物治疗杂志. 2009, 14(1): 71-74.
骨髓间充质干细胞表达外源性IL-12对胶质瘤C6细胞增殖的影响 [点此下载全文](#)

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摘要:

目的: 探讨以骨髓间充质干细胞 (mesenchymal stem cells, MSCs) 为基因治疗载体表达外源性IL-12对胶质瘤C6细胞增殖的影响。方法: 腺病毒介导IL-12基因转染大鼠MSCs (AdIL-12 MSCs), RT-PCR及Western Blotting检测AdIL-12 MSCs中IL-12基因及蛋白表达, 光镜下观察外源性IL-12对C6细胞形态的影响。结果: 腺病毒介导IL-12 MSC, 其IL-12基因在mRNA及蛋白水平均有明显表达。AdIL-12 MSC分泌的外源性IL-12显著抑制胶质瘤C6细胞的增殖 (P<0.05)。结论: AdIL-12 MSC能够在mRNA及蛋白水平表达外源性IL-12基因, 显著抑制胶质瘤C6细胞的增殖。

关键词: [胶质瘤](#) [骨髓间充质干细胞](#) [IL-12](#) [增殖](#)

Effect of AdIL-12 infected mesenchymal stem cells on proliferation of C6 glioma cells [Download Full Text](#)
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Abstract:

Objective: To study the influence of mesenchymal stem cells (MSC) infected by AdIL-12 on the proliferation of C6 glioma cells. Methods: The MSCs were cultured from rat bone marrow and verified by immunohistochemistry and flow cytometry. AdIL-12 MSCs harboring IL-12 (AdEasy IL-12) were infected into MSCs to construct AdIL-12 MSC containing exogenous IL-12 gene. RT-PCR and Western blotting were used to detect IL-12 mRNA and protein expression in AdIL-12 MSC. MTT method was used to detect the influence of supernatant on the proliferation of C6 glioma cells. Results: Exogenous IL-12 gene was effectively transfected into MSCs. IL-12 was expressed in MSCs at both mRNA and protein levels as detected by RT-PCR and Western blotting. Supernatant of AdIL-12 MSC significantly inhibited the proliferation of C6 glioma cells compared with MSC. Conclusion: MSCs transfected with IL-12 gene (AdIL-12 MSC) can express IL-12 at mRNA and protein levels and significantly inhibit the proliferation of C6 glioma cells.

Keywords: [glioma](#) [mesenchymal stem cells\(MSCs\)](#) [IL-12](#); [proliferation](#)

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