



625-629. IL-2、IFN- α 和IFN- γ 上调肾透明细胞癌786-O细胞B7-H1的表达[J]. 方荣金, 朱绍兴, 黄世勇, 朱德胜. 中国肿瘤生物治疗杂志, 2010, 17(6)

IL-2、IFN- α 和IFN- γ 上调肾透明细胞癌786-O细胞B7-H1的表达 [点此下载全文](#)

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基金项目:

DOI:

摘要:

目的: 研究IL-2、IFN- α 和IFN- γ 对人肾透明细胞癌786-O细胞上B7-H1表达的影响。方法: IL-2、IFN- α 和IFN- γ 刺激786-O细胞, RT-PCR检测刺激后786-O细胞B7-H1 mRNA的表达, 免疫细胞化学、免疫荧光染色和流式细胞术检测刺激后786-O细胞中B7-H1蛋白的表达。结果: RT-PCR检测结果显示, IL-2、IFN- α 和IFN- γ 组786-O细胞的B7-H1 mRNA表达量明显高于未经刺激的786-O细胞 (0.75 ± 0.06 、 0.68 ± 0.05 、 0.95 ± 0.08 vs 0.30 ± 0.03 , $P < 0.05$ 或 $P < 0.01$); 免疫细胞化学和免疫荧光检测结果显示, B7-H1蛋白主要表达在786-O细胞的细胞膜上, IL-2、IFN- α 和IFN- γ 刺激后B7-H1表达明显上调; 流式细胞术检测结果显示, IL-2、IFN- α 和IFN- γ 组786-O细胞的B7-H1分子表达阳性率明显高于未经刺激的786-O细胞 [$(65.70 \pm 3.26)\%$ 、 $(56.52 \pm 1.75)\%$ 、 $(84.05 \pm 3.52)\%$ vs $(20.49 \pm 1.03)\%$, $P < 0.01$]。结论: IL-2、IFN- α 和IFN- γ 均上调786-O细胞B7-H1 mRNA和蛋白的表达, 其中IFN- γ 上调程度最高, IFN- α 上调程度最低。

关键词: [肾透明细胞癌](#) [B7-H1](#) [IL-2](#) [IFN- \$\alpha\$](#) [IFN- \$\gamma\$](#) [肿瘤免疫](#)

IL-2, IFN- α and IFN- γ up-regulate B7-H1 expression in renal clear cell carcinoma 786-O cells [Download Fulltext](#)

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Fund Project:

Abstract:

Objective : To study the effects of IL-2, IFN- α and IFN- γ on B7-H1 expression in renal clear cell carcinoma 786-O cells. Methods: 786-O cells were stimulated with IL-2, IFN- α and IFN- γ ; the expression of B7-H1 mRNA was examined by RT-PCR; and the expression of B7-H1 protein was detected by immunocytochemistry staining, immunofluorescence staining, and flow cytometry assay. Results: RT-PCR results showed that B7-H1 mRNA expression was higher in 786-O cells stimulated with IL-2, IFN- α , and IFN- γ compared with those in unstimulated cells (0.75 ± 0.06 , 0.68 ± 0.05 , 0.95 ± 0.08 vs 0.30 ± 0.03 , $P < 0.05$). B7-H1 protein was distributed in the cell membrane as showed by immunocytochemistry and immunofluorescence staining, and the expression of B7-H1 protein was up-regulated after IL-2, IFN- α , and IFN- γ stimulation. Flow cytometry results showed that B7-H1 protein expressions in 786-O cells stimulated with IL-2, IFN- α , and IFN- γ were significantly higher than that in unstimulated cells [$(65.70 \pm 3.26)\%$, $(56.52 \pm 1.75)\%$, $(84.05 \pm 3.52)\%$ vs $(20.49 \pm 1.03)\%$, $P < 0.01$]. Conclusion: IL-2, IFN- α and IFN- γ can all up-regulate the expression of B7-H1 mRNA and protein in 786-O cells, with IFN- γ showing the most potent up-regulation effect and IFN- α showing the least one.

Keywords: [renal clear cell carcinoma](#) [B7-H1](#) [IL-2](#) [IFN- \$\alpha\$](#) [IFN- \$\gamma\$](#) [tumor immunity](#)

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