

投稿指南

特邀审稿

期刊内容

45~49.mda-7/IL-24对裸鼠肝癌移植瘤的生长抑制和促凋亡作用[J].张小峰,殷正丰,艾 莉,康晓燕,徐 文,李 瑾,施乐华.中国肿瘤生物治疗杂志,2009,16(1)

期刊概况

mda-7/IL-24对裸鼠肝癌移植瘤的生长抑制和促凋亡作用 点此下载全文

首页

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目的:探讨mda 7/IL 24对裸鼠肝癌细胞移植瘤的生长抑制和促凋亡作用及其相关机制。方法:构建携带mda 7基因的重组腺病毒载体Ad mda 7。以HepG2细 胞皮下接种建立裸鼠肝癌移植瘤模型,采用瘤内单点注射的方法分别给予Ad GFP、Ad mda 7和ALLN (毒胡萝卜素, N Ac L L norleucinal) +Ad mda 7, 观 察瘤质量和瘤体积的变化,通过免疫组化和TUNEL法检测肿瘤组织内凋亡相关蛋白caspase 3活化、细胞增殖相关抗原ki 67和微血管密度、细胞凋亡率,并通过Wes 形成,并通过内质网应激通路显著诱导肿瘤细胞的凋亡。

关键词: mda-7 IL-24 肝癌 凋亡 caspase

mda-7/IL-24 inhibits proliferation and promotes apoptosis of transplanted hepatocellular cancer cells in nude mice Download **Fulltext**

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Abstract:

Objective: To study the proliferation inhibition and apoptosis promotion effect of mda 7/IL 24 in transplanted hepatocellular cancer cells in nude mice, and to study the related mechanism. Methods: Recombinant vector Ad.mda 7 was constructed. BALB/c nude mice liver cancer model was established by subcutaneous implanting of HepG2 cells. Nude mice were administered with Ad.GFP, Ad.mda 7 or ALLN+Ad.mda 7 via intra tumor single point injection. The changes of tumor size and weight were observed. Activation of caspase 3, apoptosis of cancer cells, cell proliferation associated antigen ki 67 and microvascular density were assessed by immunohistochemistry and TUNEL method. Caspase 12, caspase 3 and Bax expression was examined via Western blotting. Results: The tumor sizes of Ad.mda 7 treated mice and Ad.GFP treated mice were (312.6 \pm 30.24) mm 3 vs (520.6 \pm 30.00) mm 3 (\vec{P} <0.05), and the weights were (0.321 \pm 0.031) g (0.534 ± 0.030) g, respectively (P <0.05). Ad.mda 7 inhibited expression of ki 67 and CD31, and induced activation of caspase 3 in subcutaneous tumor xenografts. ALLN reversed the apoptosis inducing effect of Ad.mda 7 (P <0.05), down regulated the expression of caspase 12, caspase 3 and Bax induced by Ad. Mda 7. Conclusion: mda 7/IL 24 can obviously inhibit proliferation and angiogenesis of transplanted hepatocellular cancer cells, and induce apoptosis of hepatocellular cancer cells through activating the endoplasmic reticulum stress pathway

Keywords: mda-7 | IL-24 | hepatocellular neoplasms | apoptosis | caspase

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