



首页 期刊概况 编委会 期刊内容 特邀审稿

479~483.靶向XIAP的siRNA抑制结肠癌LoVo细胞体内外的增殖[J].杜利力,韩春山,于晓丽,程晓峰,中国肿瘤生物治疗杂志,2009,10

靶向XIAP的siRNA抑制结肠癌LoVo细胞体内外的增殖 点此下载全文

杜利力 韩春山 于晓丽 程晓峰

青岛市商业医院 肿瘤内科, 山东 青岛 266001;青岛市商业医院 肿瘤内科, 山东 青岛 266001;青岛市商业医院 肿瘤内科, 山东 经外科, 山东 青岛 266071

基金项目:

DOI: 10.3872/j.issn.1007-385X.2009.5.011

摘要:

目的: 研究siRNA干扰X连锁凋亡抑制蛋白(X linked inhibitor of apoptosis protein, XIAP) 基因表达对结肠癌细胞Lt建 XIAP 真核表达干扰载体pSil2.1 shXIAP1和pSil2.1 shXIAP2,脂质体转染结肠癌细胞株LoVo,G418筛选出稳定转染LoVtern blotting方法检测XIAP mRNA和蛋白的表达。MTT法和平板克隆形成实验检测LoVo细胞的增殖;流式细胞仪检测细胞的凋亡;达下调对结肠癌体内增殖活性的影响。结果:LoVo shXIAP2细胞中 XIAP mRNA和蛋白表达水平均显著下调。相对于对照组细克隆形成率显著降低(P<0.01),凋亡率显著增加(P<0.01)。LoVo shXIAP2移植瘤组织中XIAP蛋白表达明显下调,制(均 P<0.05)。结论:pSil2.1 shXIAP2能够抑制结肠癌LoVo细胞中XIAP蛋白的表达,抑制LoVo细胞体内外的增殖,有望

关键词: 结肠癌 RNA干扰 X连锁凋亡抑制蛋白 增殖 凋亡

XIAP targeting siRNA inhibits proliferation of colorectal cancer cells in vitro and in vivo Download Fullte:

DU Li li HAN Chun shan YU Xiao li CHENG Xiao feng

Department of Oncology, Qingdao Commercial Hospital, Qingdao 266071, Shandong, China; Department of Onc Hospital, Qingdao 266071, Shandong, China; Department of Oncology, Qingdao Commercial Hospital, Qingdao : China; Department of Neurosurgery, Qingdao Municipal Hospital, Qingdao 266001, Shandong, China

Fund Project:

Abstract:

Objective: To investigate the effect of XIAP (X linked inhibitor of apoptosis protein) targeting siRNA on the colorectal cancer cells in vitro and in vivo. Methods: The XIAP targeting siRNA pSil2.1 shXIAP1 and protectors were constructed and were transfected into LoVo cells using Lipofectamine; the stable transfectants Lipofectamine by RT PCR and Western blotting. The was determined by MTT and colony formation assay. Cell apoptosis was examined by FCM. The influence of proliferation of LoVo cells in vivo was observed in LoVo bearing nude mice. Results: The expressions of XI. LoVo shXIAP2 cells were significantly down regulated in LoVo shXIAP2 cells. Compared with un transfected LoV colony formation abilities of LoVo shXIAP2 cells were significantly inhibited (P < 0.05); the apoptosis rate of L significantly increased (P < 0.05). The expression of XIAP protein in LoVo shXIAP2 implanted tumors was do of tumors was significantly inhibited (all P < 0.05). Conclusion: pSil2.1 shXIAP2 plasmid can down regulate the cells and inhibit proliferation of LoVo cells in vitro and in vivo, making XIAP targeting siRNA a potential nof colorectal cancer.

Keywords: colorectal cancer RNA interference XIAP proliferation apoptosis

查看全文 查看/发表评论 下载PDF阅读器

Copyright © Biother.Org™ All Rights Reserved; ISSN: 1007-385X CN 31-1725 主管单位:中国科学技术协会 主办单位:中国免疫学会、中国抗癌学会地址:上海市杨浦区翔殷路800号 邮政编码: 200433 京ICP备06011393号-2本系统由北京勤云科技发展有限公司设计