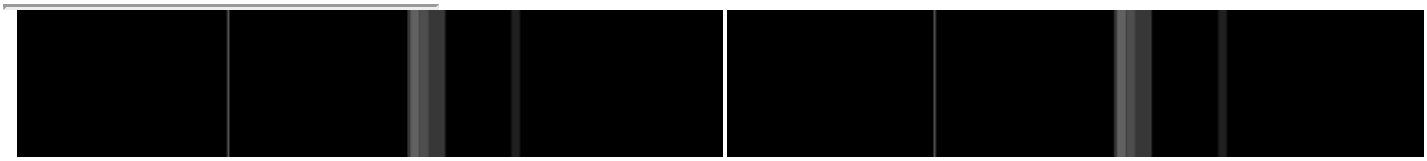

复旦学报(医学版) » 2014, **Vol. 41** » Issue (1): 88-92 DOI: 10.3969/j.issn.1672-8467.2014.01.014

论著

负载辐射凋亡MB49肿瘤细胞抗原的树突状细胞(DC)疫苗对小鼠膀胱癌的抑制作用

谢雪锋[1] 侯剑刚[2△] 陈刚[1] 丁强[2]

(1复旦大学附属金山医院泌尿科上海201508; 2复旦大学附属华山医院泌尿外科研究所上海200040)

Inhibitory effects of dendritic cell (DC) vaccine loading antigen with irradiated apoptotic MB49 tumor cells against bladder cancer cells in mice

XIE Xue-feng[1], HOU Jian-gang[2△], CHEN Gang[1], DING Qiang[2]

([1]Department of Urology,Jinshan Hospital,Fudan University,Shanghai 201508,China;[2]Institute of Urology,Huashan Hospital,Fudan University,Shanghai 200040,China)

摘要 图/表 参考文献 相关文章 (15)

全文: PDF (1082 KB) HTML (0 KB)

输出: BibTeX | EndNote (RIS)

摘要

目的 研究辐射凋亡MB49肿瘤细胞诱导的树突状细胞(dendritic cell,DC)疫苗的制备及对C57BL/6小鼠体内膀胱肿瘤的免疫学效应。**方法** 采用辐射法获取MB49细胞抗原并用其致敏骨髓来源的DC来制备DC疫苗。用MB49小鼠膀胱癌细胞建立荷瘤动物模型,随机分为实验组和对照组,于肿瘤细胞接种后第7、14天给予相应DC疫苗治疗或者PBS,每组分为2个亚组,分别用于测量瘤质量、体积及用于观察荷瘤小鼠存活情况。**结果** 负载辐射凋亡肿瘤细胞DC疫苗的实验组荷瘤小鼠,其肿瘤的平均体积和平均质量均显著低于对照组(P<0.01),生存期长于对照组。DC疫苗实验组中有2只小鼠30天内无肿瘤生长,再次皮下接种MB49细胞观察30天仍无肿瘤发生。**结论** 负载辐射凋亡肿瘤细胞的DC疫苗对膀胱肿瘤荷瘤小鼠具有抑瘤效应和延长生存期的作用。

关键词 : 树突状细胞(DC), 膀胱肿瘤, 疫苗, MB49细胞, 小鼠

Abstract :

ObjectiveTo investigate the effects of dendritic cell (DC) vaccine sensitized by antigen with irradiated apoptotic MB49 tumor cells on the treatment of bladder cancer in mice.**Methods** MB49 antigen was obtained by irradiation and then sensitized bone marrow derived DC (BM-DC) to establish DC vaccine.Mice bearing bladder cancer were divided into DC group and control group.On the 7th and 14th day after subcutaneous of tumor cell,DC group was injected DC vaccine,and the control group was injected PBS.Each group was divided into two subgroups in order to measure tumor mass and volume and to observe survival condition of mice.**Results** The average mass and volume of tumors in mice of DC group were significantly higher than those of the control group (*P*<0.01),which also had longer survival period.Two mice in DC group survived without tumor for 30 days.Although they were injected MB49 cells for the second time,there was no tumor growth in 30 days.**Conclusions** DC vaccine loading antigen with irradiated apoptotic MB49 tumor cells can inhibit the growth of MB49 cells in vivo.

Key words : dendritic cell (DC) bladder tumor vaccine MB49 cells mice

收稿日期: 2013-03-28

引用本文:

谢雪锋1 侯剑刚2△ 陈刚1 丁强2. **负载辐射凋亡MB49肿瘤细胞抗原的树突状细胞(DC)疫苗对小鼠膀胱癌的抑制作用**[J]. 复旦学报(医学版), 2014, 41(1): 88-92. XIE Xue-feng1, HOU Jian-gang2△, CHEN Gang1, DING Qiang2. **Inhibitory effects of dendritic cell (DC) vaccine loading antigen with irradiated apoptotic MB49 tumor cells against bladder cancer cells in mice**. jms, 2014, 41(1): 88-92.

链接本文:

http://jms.fudan.edu.cn/CN/10.3969/j.issn.1672-8467.2014.01.014 **或** http://jms.fudan.edu.cn/CN/Y2014/V41/I1/88

服务

- 把本文推荐给朋友
- 加入我的书架
- 加入引用管理器
- E-mail Alert
- RSS

作者相关文章

主管单位：中华人民共和国教育部 邮编：200032 主编：桂永浩

主办单位：复旦大学 电话：021-54237314,54237164 国内发行：上海市报刊发行处

编辑出版：《复旦学报（医学版）》编辑部 E-mail：xbyxb@shmu.edu.cn 国外发行：中国国际图书贸易总公司（北京399信箱，邮编100044）

地址：上海市医学院路138号285信箱 刊号：ISSN 1672-8467 CN 31-1885/R 邮发代号：国内4-262 国外 BM199

版权所有 © 2018《复旦学报(医学版)》编辑部

本刊全文数据库版权所有，未经许可，转载、链接及印刷或制作光盘都属违法，本刊将保留追究法律责任的权利。