



首页 期刊概况 编委会 期刊内容 特邀审稿 投稿指南 出版发

25~29. 趋化因子SLC和免疫佐剂CpG-ODN联合应用对小鼠移植黑素瘤的疗效[J].许相范,许振柱,唐丽华,李安娜,徐显辉,柳春宝.中国肿瘤生物治疗杂志,2010,17(1)

趋化因子SLC和免疫佐剂CpG-ODN联合应用对小鼠移植黑素瘤的疗效 点此下载全文

许相范 许振柱 唐丽华 李安娜 徐显辉 柳春宝

厦门市第二医院 病理科, 福建 厦门 361021; 厦门市第二医院 检验科, 福建 厦门 361021; 厦门市第二医院 病理科, 福建 厦门 361021; 厦门市第二医院 呼吸科, 福建 厦门 361021)

;厦门市第二医院 病理科, 福建 厦门 361021;厦门市第二医院 病理科, 福建 厦门 361021

基金项目: 厦门市科技局计划指导性项目(No.3502z20089020)

DOI: 10.3872/j.issn.1007-385X.2010.1.005

摘要:

目的:探讨次级淋巴组织趋化因子(seccondary lymphoid tissue chemokine, SLC)和CpG寡聚脱氧核苷酸(CpG oligodeoxynucleotide, CpG ODN)联合应用对小鼠移植黑素瘤的治疗效果及其可能机制。方法:制备SLC Fc融合蛋白,体外检测SLC Fc对小鼠淋巴细胞的趋化效应。建立小鼠黑素瘤移植模型,随机分生理盐水对照组、CpG ODN组、SLC Fc组以及SLC Fc+CpG ODN组共4组。观察治疗后各组小鼠肿瘤的生长情况,流式细胞术检测移植瘤组织中淋巴细胞的种类和浸润情况。结果:成功制备SLC Fc蛋白,SLC Fc对小鼠淋巴细胞具有剂量依赖性(0.03、0.3和 3 μg/L)趋化作用。瘤内注射SLC Fc和(或)CpG ODN明显抑制肿瘤的生长,联合治疗组瘤体明显小于对照组(P <0.01),并且小鼠存活时间也明显延长。联合治疗组瘤体内CD4 +、CD8 +T淋巴细胞和CD11c +树突状细胞较对照组显著增多(P <0.05, P <0.01),并且其肿瘤引流淋巴结也明显增大。结论:SLC和CpG ODN联合应用对小鼠移植黑素瘤有抑制作用,其机制与趋化CD4 +T、CD8 +T细胞和促进DCs增殖有关。

关键词: 次级淋巴组织趋化因子 CpG寡聚脱氧核苷酸 黑素瘤 抗肿瘤免疫

Therapeutic effect of chemokine SLC combined with immune adjuvant CpG-ODN in treatment of implanted mouse melanoma <u>Download Fulltext</u>

XU Xiang-fan XU Zhen-zhu TANG Li-hua LI An-na XU Xian-hui LIU Chun-bao

Department of Pathology, Xiamen 361021, Fujian, China; Department of Clinical Laboratory, Xiamen 361021, Fujian, China; Department of Pathology, Xiamen 361021, Fujian, China; Department of Respiratory Diseases, Second Hospital of Xiamen, Xiamen 361021, Fujian, China; Department of Pathology, Xiamen 361021, Fujian, China; Department of Pathology, Xiamen 361021, Fujian, China; Department of Pathology, Xiamen 361021, Fujian, China

Fund Project: Project surpported by the Scientific Constructive Program of Science and Technology Bureau of Xiamen (No.3502z20089020)

Abstract:

Objective: To study the therapeutic effect of secondary lymphoid tissue chemokine (SLC) combined with CpG oligodeoxynucleotide (CpG ODN) in treatment of implanted mouse melanoma and the possible mechanism. Methods: SLC Fc fusion protein was prepared and its chemotaxis of lymphocytes was detected by chemotaxis assay. Implanted melanoma mouse models were established and randomly divided into 4 groups: control group, SLC Fc group, CpG ODN group, and SLC Fc+CpG ODN group. The growth of implanted tumors in each group was observed after treatment. Subtype and infiltration of lymphocytes in implanted tumor tissues were examined by flow cytometry. Results: SLC Fc protein was successfully prepared, and it dose dependently attracted lymphocytes (0.03, 0.3, and 3 μ g/L). Intra tumor injection SLC Fc and CpG ODN alone or in combination significantly inhibited growth of B16 implanted tumors. Tumor size in SLC Fc+CpG ODN group was significantly smaller than that in control group (P <0.01), and animals in SLC Fc+CpG ODN group survived longer. Tumor infiltrated CD4 + T, CD8 + T, and dendritic cells (DCs) in SLC Fc+CpG ODN group were markedly increased as compared with those in control group (P <0.05), and tumor draining lymph nodes were dramatically enlarged. Conclusion: SLC combined with CpG ODN can inhibit the growth of implanted melanoma by attracting CD4 + T and CD8 + T and promoting proliferation of DCs.

Keywords: secondary lymphoid tissue chemokine (SLC) CpG ODN melanoma antitumor immunity

查看全文 查看/发表评论 下载PDF阅读器