

[1]刘星,梁平,周波,等.膀胱肿瘤患者外周血源性树突状细胞表型及免疫功能变化[J].第三军医大学学报,2013,35(09):901-904.

Liu Xing,Liang Ping,Zhou Bo,et al.Phentype and metergasis of dendritic cells from peripheral blood of bladder carcinoma patients

[J].J Third Mil Med Univ,2013,35(09):901-904.

[点击复制](#)

膀胱肿瘤患者外周血源性树突状细胞表型及免疫功能到:

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第09期 页码: 901-904 栏目: 论著 出版日期: 2013-05-15

Title: Phenotype and metergasis of dendritic cells from peripheral blood of bladder carcinoma patients

作者: 刘星; 梁平; 周波; 张克勤; 靳风烁; 李彦锋
第三军医大学大坪医院野战外科研究所泌尿外科

Author(s): Liu Xing; Liang Ping; Zhou Bo; Zhang Keqin; Jin Fengshuo; Li Yanfeng
Department of Urology, Institute of Surgery Research, Daping Hospital, Third Military Medical University, Chongqing, 400042, China

关键词: 膀胱肿瘤; 树突状细胞; PD-L1

Keywords: bladder carcinoma; dendritic cells; PD-L1

分类号: R329.24;R392.2;R737.14

文献标志码: A

摘要: 目的 探讨膀胱肿瘤患者外周血源性树突状细胞(dendritic cells,DCs)的表型及免疫功能变化。方法 通过密度梯度离心法从膀胱肿瘤患者和正常人外周血分离单个核细胞,加rhGM-CSF和rhIL-4诱导培养树突状细胞,采用流式细胞仪检测2组DCs表达程序性死亡配体-1(PD-L1)、CD1a、HLA和CD83的变化,混合淋巴细胞反应检测其刺激T淋巴细胞增殖能力和ELISA法检测分泌IL-10和IL-12的变化。结果 膀胱肿瘤患者外周血DCs表达PD-L1[(95.06±4.06)% vs (76.63±6.90)%]和分泌IL-10[(214.00±13.75) pg/mL vs (83.78±7.95) pg/mL]的水平显著高于正常组($P<0.05$),DCs表达CD83[(16.20±1.91)% vs (35.53±1.58)%]及刺激淋巴细胞增殖的能力均低于正常组水平($P<0.05$)。结论 膀胱肿瘤患者外周血源性树突状细胞高表达PD-L1、低表达CD83及过多分泌IL-10可能是膀胱肿瘤发生免疫逃逸的原因之一。

Abstract: Objective To investigate the phenotype and metergasis of dendritic cells (DCs) in peripheral blood of patients with bladder carcinoma. Methods DCs were isolated from the peripheral blood of patients with bladder carcinoma and healthy subjects by density gradient centrifugation, respectively, and then the 2 groups of DCs were cultured in vitro with rhGM-CSF and rhIL-4 induction. The expression levels of PD-L1, CD1a, HLA and CD83 on the DCs were detected by flow cytometry, and the proliferation of lymphoid cells

导航/NAVIGATE

[本期目录/Table of Contents](#)

[下一篇/Next Article](#)

[上一篇/Previous Article](#)

工具/TOOLS

[引用本文的文章/References](#)

[下载 PDF/Download PDF\(582KB\)](#)

[立即打印本文/Print Now](#)

[查看/发表评论/Comments](#)

[导出](#)

统计/STATISTICS

[摘要浏览/Viewed](#) 266

[全文下载/Downloads](#) 135

[评论/Comments](#)

[RSS](#) [XML](#)

stimulated by the 2 groups of DCs were tested by mixed lymphocyte reaction. ELISA was used to measured the levels of IL-10 and IL-12 secreted by the 2 groups of DCs. Results The expression level of PD-L1 [(95.06±4.06)% vs (76.63±6.90)%] and the content of IL-10 secreted by DCs (214.00±13.75 vs 83.78±7.95 pg/mL) were significantly higher in the bladder carcinoma patients than in the normal control, whereas, CD83 expression level was significantly reduced [(16.20±1.91)% vs (35.53±1.58)%, $P<0.05$]. Moreover, the proliferation of lymphoid cells stimulated with DCs was decreased in patient group than in healthy subject group. Conclusion Bladder carcinoma patients' DCs have a phenotype of over-expressing PD-L1, over-secreting IL-10 and down-expressing CD83. The changed phenotype may be one of possible mechanisms of immune evasion of the tumor.

参考文献/REFERENCES:

刘星, 梁平, 周波, 等. 膀胱肿瘤患者外周血源性树突状细胞表型及免疫功能变化[J]. 第三军医大学学报, 2013, 35(9): 901-904.

相似文献/REFERENCES:

[1] 邹林洪, 王豫蓉, 张琳林, 等. 树突状细胞对大鼠牙移植后组织学及Th1/Th2细胞因子影响的研究[J]. 第三军医大学学报, 2012, 34(22): 2292.

Zou Linhong, Wang Yurong, Zhang Linlin, et al. Effect of dendritic cells on histology and Th1/Th2 cytokines after tooth transplantation in rats[J]. J Third Mil Med Univ, 2012, 34(09): 2292.

[2] 陈太邦, 赵建华, 王永飞, 等. 体外树突状细胞通过NT-3上调P-ERK1/2的表达促进神经干/祖细胞分化[J]. 第三军医大学学报, 2012, 34(23): 2368.

Chen Taibang, Zhao Jianhua, Wang Yongfei, et al. Dendritic cells promote neural stem/progenitor cells differentiation through NT-3 up-regulating p-ERK1/2 in vitro[J]. J Third Mil Med Univ, 2012, 34(09): 2368.

[3] 徐曼, 米黎, 重组E.coli LLO/OVA 明显增强小鼠CD11c细胞活性及抗肿瘤免疫[J]. 第三军医大学学报, 2007, 29(17): 1702.

XU Man, MI Can. Effective activation of CD11c and anti-tumor immune in immunized mice with recombinant E.coli LLO/OVA[J]. J Third Mil Med Univ, 2007, 29(09): 1702.

[4] 易发平, 焦庆昉, 符少月, 等. 小鼠骨髓来源未成熟树突状细胞蛋白表达的分析[J]. 第三军医大学学报, 2011, 33(14): 1437.

Yi Faping, Jiao Qingfang, Fu Shaoyue, et al. Protein expression analysis of immature mouse bone marrow-derived dendritic cells[J]. J Third Mil Med Univ, 2011, 33(09): 1437.

[5] 赵增仁, 李勇, 杨进强, 等. 胃癌及区域淋巴结中树突状细胞CD83、CD80、CD86的表达与临床意义[J]. 第三军医大学学报, 2006, 28(04): 376.

[6] 苟欣, 何卫阳, 肖明朝, 等. Survivin在膀胱癌中的表达及其与癌细胞增殖关系的研究[J]. 第三军医大学学报, 2006, 28(04): 377.

[7] 夏俊波, 宋云熙, 曾雪峰, 等. 1,25-二羟维生素D-3处理树突状细胞在过敏性气道炎症中的作用[J]. 第三军医大学学报, 2008, 30(08): 743.

XIA Jun-bo, SONG Yun-xi, ZENG Xue-feng, et al. Role of 1,25-Dihydroxyvitamin D3 treated dendritic cells in allergic airway inflammation[J]. J Third Mil Med Univ, 2008, 30(09): 743.

[8] 余佩武, 赵永亮. 树突状细胞抗肿瘤作用研究进展[J]. 第三军医大学学报, 2006, 28(05): 381.

[9] 余佩武, 赵永亮, 王月禾, 等. 转染rhscIL-12对人树突状细胞功能的影响[J]. 第三军医大学学报, 2006, 28(05): 384.

[10] 张坤, 余佩武, 高朋芬, 等. 胃癌细胞-树突状细胞融合疫苗肿瘤细胞杀伤活性研究[J]. 第三军医大学学报, 2006, 28(05): 404.

[11] 张尧, 兰卫华, 聂志林, 等. 负载肿瘤抗原的DC疫苗对小鼠体内膀胱肿瘤的抑制作用[J]. 第三军医大学学报, 2009, 31(13): 1246.

ZHANG Yao, LAN Wei-hua, NIE Zhi-lin, et al. Inhibitory effect of dendritic cell vaccine plus tumor antigen on murine bladder tumor in vivo[J]. J Third Mil Med Univ, 2009, 31(09): 1246.