

[1]李小红,陈陵,朱波.PD-1+肿瘤浸润性CD8⁺T淋巴细胞的表型鉴定及功能研究[J].第三军医大学学报,2013,35(05):438-441.

Li Xiaohong,Chen Ling,Zhu Bo.Identification of tumor-infiltrating CD8+PD-1+ T-lymphocytes in Lewis lung cancer[J].J Third Mil Med Univ,2013,35(05):438-441.

[点击复制](#)

PD-1⁺肿瘤浸润性CD8⁺T淋巴细胞的表型鉴定及功能

《第三军医大学学报》 [ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第05期 页码: 438-441 栏目: 论著 出版日期: 2013-03-15

Title: Identification of tumor-infiltrating CD8⁺PD-1⁺ T-lymphocytes in Lewis lung cancer

作者: [李小红](#); [陈陵](#); [朱波](#)
第三军医大学新桥医院全军肿瘤诊治研究所

Author(s): [Li Xiaohong](#); [Chen Ling](#); [Zhu Bo](#)
Center of Cancer, Xinqiao Hospital, Third Military Medical University, Chongqing, 400037, China

关键词: [肿瘤](#); [T 淋巴细胞](#); [PD-1](#)

Keywords: [tumor](#); [T lymphocyte](#); [PD1](#)

分类号: R392.12; R73-35; R730.3

DOI: -

文献标识码: A

摘要: 目的 从肿瘤局部分离衰竭性CD8⁺T淋巴细胞(CD8⁺PD-1⁺T细胞),并对其功能进行研究,初步探讨机体免疫系统无法有效杀伤和清除肿瘤的原因。 方法 C57BL/6小鼠皮下注射Lewis肺癌细胞株建立小鼠肿瘤模型。将肿瘤制成单细胞悬液后,染细胞表面标志。采用流式细胞术从肿瘤局部分选CD8⁺PD-1⁺T淋巴细胞及CD8⁺PD-1⁻T淋巴细胞,体外经非特异性刺激后行细胞内因子染色,检测IFN- γ 分泌能力。CFSE细胞染色检测其增殖活性。 结果 肿瘤局部成功分离得浸润性CD8⁺T淋巴细胞,其中将近80%的细胞高表达衰竭表型PD-1⁺。CFSE结果显示CD8⁺PD-1⁺T细胞较CD8⁺PD-1⁻T细胞增殖活性明显下降;细胞内因子染色后流式细胞术检测结果显示肿瘤局部CD8⁺PD-1⁺T细胞较CD8⁺PD-1⁻T细胞 IFN- γ 分泌能力降低约50%。 结论 肿瘤局部存在一群免疫衰竭性T细胞,可能参与了肿瘤的免疫逃逸。

Abstract: Objective To identify the biological function of tumor-infiltrating CD8⁺PD-1⁺ T-lymphocytes in Lewis lung cancer. Methods The implanted tumor model was established by subcutaneous injection of Lewis lung cancer cells into C57BL/6 mice. CD8⁺PD-1⁺ T-lymphocytes and CD8⁺PD-1⁻ T-lymphocytes were isolated from transplanted tumors by flow cytometry and labeled with CFSE to follow their proliferation. The IFN- γ level in isolated cells was analyzed by intracellular cytokine staining. Results CD8⁺ T-lymphocytes existed in transplanted tumors. Some of those CD8⁺ T-lymphocytes also expressed PD-1, which has been identified as a marker of exhausted T cells. In comparison with

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\(846KB\)](#)

[立即打印本文/Print Now](#)

[推荐给朋友/Recommend](#)

[查看/发表评论/Comments](#)

统计/STATISTICS

摘要浏览/Viewed 145

全文下载/Downloads 73

[评论/Comments](#)

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

CD8⁺PD-1⁻ T-lymphocytes, the proliferation rate of CD8⁺PD-1⁺ T-lymphocytes significantly decreased and the IFN- γ secretion was suppressed.

Conclusion The tumor-infiltrating CD8⁺ T-lymphocytes that express PD-1 do not have normal function, which may be the reason for tumor-infiltrating lymphocytes not killing tumor cells effectively.

参考文献/REFERENCES

李小红, 陈陵, 朱波. PD-1⁺肿瘤浸润性CD8⁺T淋巴细胞的表型鉴定及功能研究[J]. 第三军医大学学报, 2013, 35(5): 438-441.

备注/Memo: -

更新日期/Last Update: 2013-03-05