

论著

脑囊尾蚴病患者Th2型细胞因子的研究

徐宏秀,贾凤菊,刘玉冰,徐靖,魏冬冬

山东省寄生虫病防治研究所; 济宁 272000

收稿日期 修回日期 网络版发布日期 接受日期

摘要

目的 探讨脑囊尾蚴病患者Th2型细胞因子IL-4、IL-10、IL-13水平及其免疫调控作用。方法 用淋巴细胞分离液密度梯度离心法分离淋巴细胞,按异硫氰酸胍一步法提取RNA,在逆转录酶作用下合成cDNA,用PCR法对cDNA进行扩增,最后对扩增产物进行电泳鉴定。结果 30例脑囊尾蚴病患者外周血淋巴细胞,发现27例有细胞因子表达,3例未检测到细胞因子。在27例有细胞因子表达的患者中,IL-4、IL-10、IL-13的表达分别为16例、17例和14例,27例均有IL-4和(或)IL-10和(或)IL-13表达。10例健康人外周血淋巴细胞仅发现1例表达低水平的IL-4和IL-10,其余均未测出。结论 脑囊尾蚴病患者Th2型细胞因子表达水平明显升高,其体液免疫功能增强。

关键词 [脑囊尾蚴病](#) [细胞因子](#) [RT-PCR](#) [Th2型](#)

分类号

Studies on Th2 Type Cytokines in Patients with Neurocysticercosis

XU Hong-xiu, JIA Feng-ju, LIU Yu-bing, XU Jing, WEI Dong-dong

Shangdong Institute of Parasitic Diseases; Jining 272000

Abstract

Objective To explore the level of Th2 type cytokines including IL-4, IL-10 and IL-13, and the immunoregulation of cytokines in patients with neurocysticercosis. Methods Lymphocytes in patients with neurocysticercosis were separated from the blood sample with density gradient centrifugation and the total RNA was extracted by guanidine isothiocyanate method. cDNA was synthesized by reversed transcription reaction. The target gene was then amplified by PCR. The PCR products were analyzed by electrophoresis. Results Results of RT-PCR showed that cytokines mRNA in lymphocytes of peripheral blood were detected in 27 patients with neurocysticercosis but not in the other 3 cases. Among the positive cases, mRNA of IL-4, IL-10 and IL-13 was detected in 16, 17 and 14 cases respectively and mRNA of IL-4, IL-10 and/or IL-13 was detected in all the 27 cases. In the detection of lymphocytes in peripheral blood of 10 healthy subjects, expression of IL-4 and IL-10 was found in only one case at low level. Conclusion The study revealed that Th2 associated cytokines were expressed at high level and the humoral immunocompetence was relatively strong in patients with neurocysticercosis.

Key words [neurocysticercosis](#) [cytokines](#) [RT-PCR](#) [Th2 type](#)

DOI:

通讯作者

作者个人主页 徐宏秀;贾凤菊;刘玉冰;徐靖;魏冬冬

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF \(215KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献\[PDF\]](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [复制索引](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中包含“脑囊尾蚴病”的相关文章](#)
- ▶ 本文作者相关文章

- [徐宏秀](#)
- [贾凤菊](#)
- [刘玉冰](#)
- [徐靖](#)
- [魏冬冬](#)