

[1]罗效梅,熊玉霞,曹均,等.全血 γ 干扰素诱导蛋白-10释放试验对活动性肺结核的诊断价值[J].第三军医大学学报,2013,35(19):2092-2094.

Luo Xiaomei,Xiong Yuxia,Cao Jun,et al.Diagnostic value of whole blood gamma interferon-inducible protein 10 release assay in active pulmonary tuberculosis[J].J Third Mil Med Univ,2013,35(19):2092-2094.



全血 γ 干扰素诱导蛋白-10释放试验对活动性肺结核 享到:

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第19期 页码: 2092-2094 栏目: 论著 出版日期: 2013-10-15

Title: Diagnostic value of whole blood gamma interferon-inducible protein 10 release assay in active pulmonary tuberculosis

作者: [罗效梅](#); [熊玉霞](#); [曹均](#); [王燕妮](#); [杨刚毅](#); [李伶](#); [廖涌](#)
武警重庆总队医院检验科; 重庆医科大学附属第二医院内分泌科

Author(s): [Luo Xiaomei](#); [Xiong Yuxia](#); [Cao Jun](#); [Wang Yanni](#); [Yang Gangyi](#); [Li Ling](#); [Liao Yong](#)
Department of Clinical Laboratory, Chongqing Corps Hospital of Armed Police Force, Chongqing, 400061, Department of Endocrinology, Second Affiliated Hospital, Chongqing Medical University, Chongqing, 400010, China

关键词: [\$\gamma\$ 干扰素诱导蛋白-10](#); [肺结核](#); [诊断](#)

Keywords: [gamma interferon-inducible protein 10](#); [pulmonary tuberculosis](#); [diagnosis](#)

分类号: R521.04; R446.112; R446.61

文献标志码: A

摘要: 目的 探讨全血 γ 干扰素诱导蛋白-10 (IP-10) 对活动性结核病的辅助诊断价值。
方法 检测66例活动性肺结核病患者、40例非结核呼吸疾病患者及40例健康对照者血浆中非特异性IP-10的水平; 分别应用纯化的结核分枝杆菌特异性蛋白早期分泌性靶抗原-6 (EAST-6) 和培养液蛋白10(CFP10)体外刺激患者全血, 检测活动性结核组、非结核呼吸疾病组和健康对照组人群全血中IP-10的释放水平; 绘制受试者工作特征曲线, 比较非特异性IP-10和特异性IP-10对活动性肺结核的诊断效能。 结果 活动性结核组患者血浆中非特异性IP-10的水平为(139.6 \pm 124.2) pg/mL, 明显高于健康对照组[(33.5 \pm 17.7)pg/mL, $P<0.05$]; 而非结核呼吸疾病组[(88.1 \pm 73.3)pg/mL]无明显差别($P>0.05$)。经ESAT-6及CFP10诱导后, 活动性结核组患者全血IP-10释放水平为(146.0 \pm 167.1) pg/mL, 显著高于非结核呼吸疾病组[(26.6 \pm 9.7)pg/mL, $P<0.01$]与健康对照组[(24.2 \pm 9.7)pg/mL, $P<0.01$]。经过ROC分析, 结核特异性的IP-10诊断结核病的临界值为41.2 pg/mL, 敏感度为68.2%, 特异度为93.7%。特异性IP-10 ROC曲线下面积为0.905, 高于非特异性IP-10(0.747, $P<0.01$)。 结论 IP-10可作为活动性结核病的辅助诊断方法。采用结核特异性IP-10较血浆非特异性IP-10能够提高活动性肺结核的诊断效能。

Abstract: Objective To determine the clinical value of interferon-inducible protein 10 (IP-10) in auxiliary diagnosis of active tuberculosis. Methods The level of

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\(472KB\)](#)

[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](#) 101

[全文下载/Downloads](#) 41

[评论/Comments](#)



non-specific IP-10 was evaluated in the plasma of 66 active tuberculosis patients, 40 non-pulmonary tuberculous patients and 40 healthy controls, and the level of specific IP-10 was detected in the whole blood after stimulated by purified mycobacterium tuberculosis-specific antigen ESAT6 and culture filtrate protein 10 (CFP10). Then the receiver operating characteristic (ROC) curve was drawn to determine the diagnostic value of non-specific IP-10 and specific IP-10 to detect active tuberculosis. Results The non-specific IP-10 level of the active tuberculosis group (139.6 ± 124.2 pg/mL) was obviously higher than that of the healthy control group (33.5 ± 17.7 pg/mL, $P < 0.05$), but had no difference with that of the non-tuberculous pulmonary disease group (88.1 ± 73.3 pg/mL, $P > 0.05$). After stimulated by the ESAT6 and CFP10, the specific IP-10 level of active tuberculosis group (146.0 ± 167.1 pg/mL) was significantly higher than that of non-tuberculous pulmonary disease group (26.6 ± 9.7 pg/mL, $P < 0.01$) and that of the healthy control group (24.2 ± 9.7 pg/mL, $P < 0.01$). After ROC analysis, the threshold of the specific IP-10 for diagnosis of tuberculosis was 41.1 pg/mL and its sensitivity and specificity were 70.8% and 91.8% respectively. The area under curve (AUC) of the specific IP-10 was 0.905, which was obviously higher than that of non-specific IP-10 (0.747, $P < 0.01$). Conclusion The gamma interferon-inducible protein 10 release assay can be used as auxiliary diagnostic method for active tuberculosis. The diagnostic value of the specific IP-10 is better than that of non-specific IP-10.

参考文献/REFERENCES:

罗效梅,熊玉霞,曹均,等. 全血 γ 干扰素诱导蛋白-10释放试验对活动性肺结核的诊断价值[J]. 第三军医大学学报,2013,35(19):2092-2094.

相似文献/REFERENCES:

[1]鄢仁晴,罗军敏,孙万邦,等.肺结核患者外周血树突状细胞亚群的变化[J]. 第三军医大学学报,2007,29(13):1298.

YAN Ren-qing,LUO Jun-min,SUN Wan-bang,et al.Changes of peripheral blood dendritic cell subgroup in pulmonary tuberculosis patients[J].J Third Mil Med Univ,2007,29(13):1298.

[2]胡良安,李岱睿,罗永艾,等.肺结核患者外周血中CD4+CD25+FoxP3+调节T细胞增多并抑制抗结核免疫[J]. 第三军医大学学报,2011,33(20):2124.

Hu Liangan,Li Dairong,Luo Yongai,et al.Peripheral blood CD4+CD25+FoxP3+ regulatory T cells in active pulmonary tuberculosis patients[J].J Third Mil Med Univ,2011,33(19):2124.

[3]付留杰,熊鸿燕,刘元东,等.某部队肺结核患病现状及发病影响因素的流行病学研究[J]. 第三军医大学学报,2005,27(13):1400.

[4]刘琦,刘新宇,张仁卿,等.汉、藏族肺结核患者血清差异蛋白质的质谱分析[J]. 第三军医大学学报,2010,32(18):1986.

Liu Qi,Liu Xinyu,Zhang Renqing,et al.Mass spectrometry for serum differential proteins from Han and Tibetan patients with pulmonary tuberculosis[J].J Third Mil Med Univ,2010,32(19):1986.

[5]李素芝,蒋亚建,谢本维,等.中国藏族人群HLA-DRB1、-DQA1、-DQB1等位基因多态性与肺结核易感性的关联性研究[J]. 第三军医大学学报,2011,33(12):1254.

Li Suzhi,Jiang Yajian,Xie Benwei,et al.Correlation between polymorphisms of DRB1, -DQA1, and -DQB1 alleles and susceptibility to pulmonary tuberculosis in Tibetan population of China[J].J Third Mil Med Univ,2011,33(19):1254.

[6]高晓凤,贾显奉,许平等.西部2个贫困县肺结核患者发现延误情况及其影响因素分析[J]. 第三军医大学学报,2012,34(14):1471.

[7]杨先涛,张祯祯,詹学,等.肺结核患儿外周血单个核细胞中microRNA表达的初步研究[J]. 第三军医大学学报,2013,35(19):2051.

Yang Xiantao,Zhang Zhenzhen,Zhan Xue,et al.microRNA expression in peripheral blood mononuclear cells from pulmonary tuberculosis children[J].J Third Mil Med Univ,2013,35(19):2051.

[8]孙芬芬,曹晖,曹国强.结节性脂膜炎误诊肺结核1例[J]. 第三军医大学学报,2013,35(21):2300.