

EB病毒诱发淋巴瘤中LMP的表达

Expressions of LMP-1, LMP-2A and LMP-2B in Epstein Barr virus-induced lymphoma

中文关键词:[EB病毒](#) [诱发淋巴瘤](#) [LMP-1](#) [LMP-2A](#) [LMP-2](#)

英文关键词:[EB virus](#) [Induced lymphoma](#) [LMP-1](#) [LMP-2A](#) [LMP-2B](#)

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中文摘要:

背景与目的: EB病毒潜伏膜蛋白-1(latent membrane protein-1, LMP-1)是一种病毒癌蛋白,可能在淋巴瘤发生中起重要的作用。本文旨在了解EB病毒诱发的淋巴瘤细胞与正常人淋巴细胞中LMP的差异表达情况。**方法:** 应用实时定量PCR方法检测EB病毒诱发淋巴瘤细胞和正常人淋巴细胞中LMP(LMP-1、LMP-2A及LMP-2B)的差异表达情况。采用Western blot检测LMP-1蛋白表达。**结果:** 建立了EBV诱发淋巴瘤的动物模型获得诱发淋巴瘤,检测LMP-1、LMP-2A、LMP-2B在诱发淋巴瘤细胞及正常人淋巴细胞中的表达情况。实时定量PCR结果表明,LMP-1在诱发淋巴瘤细胞中的表达比在正常细胞中的表达上调255.7倍,表达差异有统计学意义($P<0.05$),LMP-2A在诱发淋巴瘤细胞中的表达比在正常细胞中的表达上调37.74倍,表达差异有统计学意义($P<0.01$),LMP-2B在诱发淋巴瘤细胞中的表达比在正常细胞中的表达上调330.63倍,表达差异有统计学意义($P<0.05$)。Western blot结果表明LMP-1在诱发的淋巴瘤细胞中的表达比在正常淋巴细胞中的表达上调。**结论:** 在EB病毒诱发的淋巴瘤发生过程中LMP可能起重要作用。

英文摘要:

Background and purpose: The latent membrane protein-1 (LMP-1) of the Epstein Barr virus (EB virus) is a kind of viral oncoprotein. It may play an important role in the tumorigenesis of lymphoma. The study was to investigate the different expressions of LMP in the EB virus-induced lymphoma cells and the normal lymphocytes, as well as to explore the role of LMP genes in the EB virus-related lymphomas. **Methods:** The animal model of EB virus-induced lymphoma was constructed in vivo. Real-time PCR technology was used to compare the different expressions of LMP (LMP-1, LMP-2A, and LMP-2B) in EB virus-induced lymphoma cells and the normal lymphocytes. Then protein expression of LMP-1 in the induced lymphoma cells and the normal lymphocytes was detected by Western blot. **Results:** Animal model of EB virus-induced lymphoma was constructed in the body of hu-PBL/SCID mice. Expression situation of LMP-1, LMP-2A, LMP-2B in the two kinds of cells was examined. It showed that LMP-1 expression in the induced lymphomas was up-regulated 255.7 times as high as that in the normal lymphocytes, the difference was statistically significant ($P<0.05$). LMP-2A expression in the induced lymphoma cells was up-regulated 37.74 times as high as that in the normal lymphocytes, the difference was statistically significant ($P<0.01$). LMP-2B expression in the induced lymphoma cells was up-regulated 330.63 times as high as that in the normal lymphocytes, the difference was statistically significant ($P<0.05$). Expression of LMP-1 protein in EBV-induced lymphomas was higher than that in the normal lymphocytes by Western blot either. **Conclusion:** These results suggest LMP may play an important role in EB virus-induced lymphoma. This experiment will provide the theoretical basis for studying the mechanism of how the EB virus induces lymphoma.

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