

论著

急性白血病患者同源结构域相互作用蛋白激酶2的表达及其临床意义

邢海燕,张新伟,田征,唐克晶,秘营昌,王敏[△]

中国医学科学院中国协和医科大学血液学研究所血液病医院, 实验血液学国家重点实验室, 天津 300020

收稿日期 2005-4-1 修回日期 2005-6-28 网络版发布日期 2009-3-19 接受日期 2005-6-28

摘要 目的:探讨急性白血病患者中同源结构域相互作用蛋白激酶2(HIPK2)基因的表达及其临床意义。方法:应用半定量逆转录-聚合酶链反应(RT-PCR)检测急性白血病患者(AL)及健康供者骨髓单个核细胞(MNC)HIPK2基因的表达。结果:①初发AL患者HIPK2的相对转录水平为 0.364 ± 0.286 ,显著低于正常对照组(1.160 ± 0.272) ($P < 0.01$);②AML患者中M2b的HIPK2的转录水平显著高于其它类型的AML($P < 0.05$);③除M2b外的AL患者HIPK2的转录水平与FAB亚型、发病时外周血白细胞数、细胞或分子遗传学异常、乳酸脱氢酶水平、多药耐药基因1(mdr1)表达、P170表达及年龄等预后因素无显著相关性($P > 0.05$)。结论:HIPK2在AL患者中低表达,可能与AL的发生发展有关。

关键词 [白血病](#) [基因](#),[HIPK2](#) [基因表达](#)

分类号 [R363](#)

HIPK2 gene expression and its clinical significance in acute leukemia

XING Hai-yan,ZHANG Xin-wei,TIAN Zheng,TANG Ke-jing,BI Ying-chang,WANG Min

State Key Laboratory of Experimental Hematology, Institute of Hematology, The Hospital of Hematopathy; Chinese Academy of Medical Sciences & Peking Union Medical College, Institute of Hematology, Tianjin 300020, China. E-mail: wangjxm@hotmail.com

Abstract

AIM: To investigate homeodomain-interacting protein kinase 2 (HIPK2) gene expression level and its clinical significance in acute leukemia (AL) patients.
METHODS: HIPK2 mRNA was determined by semi-quantitative reverse transcriptase polymerase chain reaction (semi-quantitative RT-PCR) in patients with acute leukemia and healthy donors. The relative transcription level was compared between the study group and the control group.
RESULTS: ① The relative expression level of HIPK2 mRNA in AL patients was 0.364 ± 0.286 , significantly lower than that in control (1.160 ± 0.272 , $P < 0.01$). ② HIPK2 gene expression level in M2b type was significantly higher than that in other acute myeloid leukemia (AML) subtypes ($P < 0.05$). ③ HIPK2 gene expression in AL, except M2b, had no relationship with the clinical prognostic factors such as cytogenetic or molecular aberrations, WBC counts, LDH, mdr1, P170 protein and age ($P > 0.05$).
CONCLUSION: AL has significantly lower HIPK2 mRNA expression as compared to normal control, which may be associated with leukemogenesis and/or disease progression of AL.

Key words [Leukemia](#) [Genes](#) [HIPK2](#) [Gene expression](#)

DOI: 1000-4718

通讯作者 王敏 wangjxm@hotmail.com

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF\(702KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [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“白血病”的相关文章](#)
- ▶ [本文作者相关文章](#)

- [邢海燕](#)
- [张新伟](#)
- [田征](#)
- [唐克晶](#)
- [秘营昌](#)
- [王敏](#)