

# 凋亡抑制蛋白XIAP在急性白血病患者中的表达及临床意义

《现代肿瘤医学》[ISSN:1672-4992/CN:61-1415/R] 期数: 2019年04期 页码: 641-643 栏目: 论著 (造血器·淋巴系肿瘤) 出版日期: 2019-01-08

**Title:** Expression of XIAP in patients with acute leukemia and its clinical significance

**作者:** 吴修伟<sup>1</sup>; 张丽<sup>2</sup>; 陈雁<sup>1</sup>; 常娟<sup>1</sup>; 周璐<sup>1</sup>; 胡平<sup>1</sup>; 宋斌<sup>1</sup>  
1.十堰市太和医院(湖北医药学院附属医院)血液内科;2.产科,湖北 十堰 442000

**Author(s):** Wu Xiuwei<sup>1</sup>; Zhang Li<sup>2</sup>; Chen Yan<sup>1</sup>; Chang Juan<sup>1</sup>; Zhou Lu<sup>1</sup>; Hu Ping<sup>1</sup>; Song Bin<sup>1</sup>  
1.Hematology Department; 2.Obstetrics Department,Taihe Hospital, Affiliated Hospital of Hubei University of Medicine,Hubei Shiyan 442000,China.

**关键词:** 急性白血病; XIAP; 酶联免疫吸附法

**Keywords:** acute leukemia; XIAP; enzyme-linked immunosorbent assay

**分类号:** R733.71

**DOI:** 10.3969/j.issn.1672-4992.2019.04.024

**文献标识码:** A

**摘要:** 目的: 探讨凋亡抑制蛋白XIAP (X-linked inhibitor of apoptosis protein) 在急性白血病患者中的表达及其临床意义。方法: 酶联免疫吸附法检测64例急性白血病患者血清XIAP水平。结果: 初发急性白血病患者血清XIAP水平明显高于正常对照组及完全缓解组( $P < 0.05$ ), 未缓解和复发患者XIAP水平与初诊患者无明显差异( $P > 0.05$ )。结论: XIAP水平的变化有助于急性白血病病情及疗效的判断, 可作为急性白血病疗效观察的一个新指标。

**Abstract:** Objective: To investigate the expression and clinical significance of XIAP in patients with acute leukemia. Methods: Serum XIAP levels of acute leukemia patients were determined by enzyme-linked immunosorbent assay. Results: The serum levels of XIAP in initial patient with acute leukemia was significantly higher than that of control and the complete remission group ( $P < 0.05$ ), there was no difference in the level of XIAP between nonremission and relapse and initial patients ( $P > 0.05$ ). Conclusion: Serum levels of XIAP in the patients with acute leukemia is useful marker to judge state of illness, and XIAP may be regarded as a new indicator for the curative effect of acute leukemia.

## 参考文献/REFERENCES

- [1] Erb MA, Scott TG, Li BE, et al. Transcription control by the ENL YEATS domain in acute leukemia [J]. Nature, 2017, 543(7644): 270.
- [2] Zhang YP, Qin WW, Ji YR, et al. The roles of Axin1 and Axin2 gene in acute leukemia [J]. Modern Oncology, 2017, 25(10): 1636-1638. [张阳萍, 秦炜炜, 及月茹, 等. Axin1和Axin2基因在急性白血病中的表达及临床意义 [J]. 现代肿瘤医学, 2017, 25(10): 1636-1638.]
- [3] Hikami S, Shiozaki A, Kitagawa-Juge M, et al. The role of cIAP1 and XIAP in apoptosis induced by tumor necrosis factor alpha in esophageal squamous cell carcinoma cells [J]. Digestive Diseases & Sciences, 2017, 62(3): 1-8.
- [4] Zhang ZN, Shen T. Blood disease diagnosis and curative standard [M]. Beijing: Science Press, 2007: 131-134. [张之南, 沈悌. 血液病诊断与疗效标准 [M]. 北京: 科学出版社, 2007: 131-134.]
- [5] Xiong Z, Fu Z, Shi J, et al. HtrA1 down-regulation induces cisplatin resistance in colon cancer by increasing XIAP and activating PI3K/Akt pathway [J]. Annals of Clinical & Laboratory Science, 2017, 47(3): 264-270.
- [6] Peter Listen, Natalie Roy, Katsuyuki Tamai, et al. Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP genes [J]. Nature, 1996, 379: 349-353.
- [7] Chellapandian D, Krueger J, Schechter T, et al. Successful allogeneic hematopoietic stem cell transplantation in XIAP deficiency using reduced-intensity conditioning [J]. Pediatric Blood & Cancer, 2016, 63(2): 355-357.
- [8] Chessari G, Buck IM, Day JEH, et al. Fragment-based drug discovery targeting inhibitor of apoptosis proteins: Discovery of a non-alanine lead series with dual activity against cIAP1 and XIAP [J]. Journal of Medicinal Chemistry, 2015, 58(16): 6574-6588.
- [9] Checinska A, Hoogeland BSJ, Rodriguez JA, et al. Role of XIAP in inhibiting cisplatin-induced caspase activation in non-small cell lung cancer cells [J]. Experimental Cell Research, 2016, 313(6): 1215-1224.
- [10] Zhao C, Zhao Q, Zhang C, et al. miR-15b-5p resensitizes colon cancer cells to 5-fluorouracil by promoting

apoptosis via the NF- $\kappa$ B/XIAP axis [J] .Scientific Reports,2017,7(1):4194-4196.

[11] Pazhang Y,Jaliani HZ,Imani M,et al.Synergism between NF-kappa B inhibitor,celastrol,and XIAP inhibitor,embelin,in an acute myeloid leukemia cell line,HL-60 [J] .Journal of Cancer Research & Therapeutics,2016,12(1):155-157.

[12] Gu L,Zhang H,Liu T,et al.Discovery of dual inhibitors of MDM2 and XIAP for cancer treatment [J] .Cancer Cell,2016,30(4):623-636.

[13] Cesa LC,Shao H,Srinivasan SR,et al.X-linked inhibitor of apoptosis protein (XIAP) is a client of heat shock protein 70 (Hsp70) and a biomarker of its inhibition [J] .Journal of Biological Chemistry,2018,293(7):2370-2380.

---

**备注/Memo:** 湖北省十堰市科学技术研究与开发项目 (编号:15Y18)

---

更新日期/Last Update: 1900-01-01