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论文

人白血病HL6O细胞的分化状态对细胞凋亡的影响

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摘要:

用细胞培养和流式细胞术等方法,研究人白血病HL60细胞诱导分化后,对三尖杉酯碱(Har)和喜树碱(Cam)诱导细胞凋亡的影响。结果表明,12-豆蔻酰及13-乙酸佛波酯以16nmol·L⁻¹浓度处理HL60细胞24h,细胞向单核/巨噬细胞方向分化,阻断于G₁期;分化细胞抗Har和Cam诱导的细胞凋亡,但其c-myc基因的表达无变化。1.4%二甲基亚砜处理HL60细胞48h,细胞向粒细胞方向分化,阻断于G₁期;分化细胞抗Cam,而不抗Har诱导的细胞凋亡;分化细胞的c-myc基因表达明显下降。结果提示,人白血病HL60细胞的分化状态,明显影响三尖杉酯碱和喜树碱诱导的细胞凋亡,但可能与c-myc基因的表达变化无关。

关键词: 细胞分化 细胞凋亡 三尖杉酯碱 人白血病HL60细胞 c-myc基因

EFFECTS OF DIFFERENTIATION STATUS ON APOPTOSIS OF HUMAN LEUKEMIA HL60 CELLS

FH Meng; QY He; XS Chi; WD Zhou; HQ Zhang and SB Xue

Abstract:

The effects of differentiation of human leukemia HL60 on harringtonine(Har) and camptothecin (Cam) induced apoptosis (in these cells) were studied. When treated with phorbol 12-myriate,13-acetate 16 nmol·L $^{-1}$ for 24 h,the HL60 cells differentiated into monocte/macrophage cells and were arrested at $\rm G_1$ phase. The differentiated cells were shown to be resistant to the Har and Cam induced apoptosis,but showed no change of expression of c-myc gene. HL60 cells incubated in 1.4% dimethyl sulfoxide for 48 h differentiated into granulocyte cells ad were also gene arrested at $\rm G_1$ phase. The differentiated cells became resistant to the apoptosis induced by Cam,but not that by Har,and expression of c-myc decreased drasticall in the differentiated cells. The results indicated that the differentiated status of human leukemia HL60 cells apparently affected the apoptosis induced by harringtonine and camptothecin, but it was irrelevant to the change of hte expession of c-myc gene.

Keywords: Apoptosis Harringtonine Human leukemia HL60 cell c-myc gene Cell differentiation

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