

320~324.人骨肉瘤组织中Livin和Caspase-7蛋白的表达及其临床意义[J].李怀强,孙廓,蔡风,彭源祥,刘春龙,廖琦.中国肿瘤生物治疗杂志,2014,21(3)

人骨肉瘤组织中Livin和Caspase-7蛋白的表达及其临床意义 [点此下载全文](#)

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基金项目: 江西省科技支撑计划项目资助项目 (No.00160631121206025)

DOI: 10.3872/j.issn.1007-385X.2014.03.015

摘要:

分析Livin和Caspase-7蛋白在骨肉瘤中的表达,探讨两者在骨肉瘤的临床诊断、治疗及预后中的意义。方法:收集2001年2月至2012年12月我院骨科收治的51例骨肉瘤患者的石蜡切片标本及12例正常骨髓组织标本,采用免疫组化法检测标本中Livin和Caspase-7蛋白的表达,并分析两者表达的相关性及与骨肉瘤各临床病理指标和预后之间的关系。结果:与正常骨髓组织相比,骨肉瘤患者组织中Livin蛋白的阳性表达率明显增高[66.7% (34/51) vs 8.3% (1/12), $P<0.01$];而Caspase-7蛋白的阳性表达率则明显降低[49.0% (25/51) vs 100.0% (12/12), $P<0.01$]。Livin和Caspase-7蛋白的阳性表达与骨肉瘤的大小、Enneking分期及患者5年生存率显著相关 ($P<0.01$),与患者年龄、性别、病理分型及肿瘤的部位无相关性 ($P>0.05$);Livin蛋白的阳性表达和Caspase-7蛋白的阳性表达之间呈负相关性 ($r=-0.305$, $P=0.029$)。结论:Livin蛋白在骨肉瘤组织中高表达,而Caspase-7蛋白在骨肉瘤组织中低表达,两者表达呈负相关性;Livin可能通过某种机制调控Caspase-7的表达,从而抑制了骨肉瘤细胞凋亡并促使骨肉瘤的发生与发展。

关键词: [骨肉瘤](#) [Livin](#) [Caspase-7](#) [免疫组织化学](#)

Expression and clinical significance of Livin and Caspase-7 protein in human osteosarcoma tissues [Download Fulltext](#)

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Fund Project: Project supported by Science and Technology of Jiangxi Province (No.00160631121206025)

Abstract:

The aim of this study was to analyse livin and caspase-7 expression at the protein level in correlation with the clinical diagnosis, treatment and prognosis of osteosarcoma. Method: Paraffin-embedded 51 osteosarcoma and 12 normal bone tissue specimens were prepared by the Orthopedics Department of our hospital between February 2001 and December 2012. Livin and caspase-7 proteins in the specimens were assessed by immunohistochemical staining. The correlations of livin and caspase-7 protein levels with the clinicopathological features and prognosis of osteosarcoma were analyzed. Results: Compared with normal bone tissue, Osteosarcoma tissue had a significantly higher percentage of livin-positive cells (66.7% vs 8.3%, $P<0.01$) but a significantly lower percentage of caspase-7-positive cells (49.0% vs 100.0%, $P<0.01$), as compared with the normal bone tissue. The proportions of livin- and caspase-7-positive cells were significantly correlated with tumor size, Enneking stage and the 5-year survival rate ($P<0.01$), but was independent of age, gender, pathological type and tumor site ($P>0.05$). The expression of livin was negatively correlated with the expression of caspase-7 ($r=-0.305$, $P=0.029$). Conclusion: Livin expression is positively correlated but caspase-7 expression is negatively correlated with the severity and prognosis of osteosarcoma, suggest that these two proteins may potential diagnostic and prognostic significance for osteosarcoma.

Keywords: [osteosarcoma](#) [Livin](#) [Caspase-7](#) [immunohistochemistry](#)

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