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## 12-LOX在神经胶质瘤中的表达及临床意义\*

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## Expression and significance of 12-lipoxygenase in human glioma

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[摘要](#)[图表](#)[参考文献\(0\)](#)[相关文章\(15\)](#)全文: [PDF](#) (1981 KB) [HTML](#) (1 KB)输出: [BibTeX](#) | [EndNote](#) (RIS)

## 摘要

目的: 研究12-脂氧合酶(12-lipoxygenase, 12-LOX)在神经胶质瘤中的表达及其临床意义。方法: 免疫组织化学法检测40例神经胶质瘤组织和10例正常脑组织中12-LOX表达, 结合临床随访资料探讨其表达与预后的相关性。结果: 正常脑组织中12-LOX呈弱阳性表达, 神经胶质瘤组织中强阳性表达率为72.5%, 差异有统计学意义( $P < 0.05$ )。12-LOX强阳性表达与神经胶质瘤病理级别相关, 差异有统计学意义( $P = 0.012$ ), 与患者性别、年龄、肿瘤大小、KPS评分无关。12-LOX强阳性表达患者中位无瘤生存期明显低于与弱阳性表达患者( $P < 0.05$ )。结论: 12-LOX在神经胶质瘤中异常表达, 其表达差异与神经胶质瘤的病理级别相关, 与预后密切相关。

关键词: 12-LOX, 胶质瘤, 预后

## Abstract:

Objective: To investigate the expression and clinical significance of 12-lipoxygenase (12-LOX) in glioma. Methods: 12-LOX expression in 40 glioma cases and 10 normal human brain tissues was assayed by immunohistochemistry. Clinicopathological data were analyzed to reveal the association between 12-LOX expression and prognosis of glioma patients. Results: 12-LOX was weakly expressed in the normal human brain tissues, whereas 12-LOX was strongly expressed (72.5%) in glioma tissues ( $P < 0.05$ ). The strong 12-LOX expression was correlated with the histopathological grading of glioma ( $P = 0.012$ ), whereas 12-LOX expression was not correlated with factors such as patient gender and age, tumor size, and Karnofsky Performance Score. Median survival time was longer in the group with low 12-LOX expression (25.6 months) than in the group with high 12-LOX expression (13.2 months) ( $P < 0.05$ ). Conclusion: Abnormal 12-LOX expression is implicated in glioma. 12-LOX expression was correlated with the histopathological grading of glioma and was closely associated with patient prognosis.

Key words: 12-LOX glioma prognosis

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