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HIF-1α 对人肝癌Hep G_2细胞生长的影响

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Effects of Hypoxia-inducible Factor-1alpha on Human Hepatic Cancer Cell Line Hep G_2 in Viv

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- 摘要
- 参考文献
- 相关文章

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摘要

目的 研究缺氧诱导因子-1α(HIF-1α)对人肝癌细胞株HepG_2体内生长的影响，并探讨其可能机制。方法 将HIF-1α转入人HepG_2中，建立人肝癌裸鼠模型，观察其生长。切除瘤灶、称瘤重。标本用免疫组化和Western-blot检测HIF-1α和血管内因子(VEGF)蛋白的表达。结果 HepG_2细胞对HIF-1α敏感，细胞生长速度加快。结论 HIF-1α体内可促进肝癌HepG_2的生制可能与其促血管生成有关。

关键词： 缺氧诱导因子-1α 血管内皮生长因子 肝癌

Abstract: Objective To study the effect of hypoxia-inducible factor-1alpha (HIF-1α) on hepatic cancer cell line Hep in vivo and its mechanisms. Methods Hep cells (1 (10^6 / mouse) were inoculated subcutaneously into 20 nude mice. Th of subcutaneous tumor were detected. The resected specimens were made into paraffin-embedded sections. The express HIF-1α and vascular endothelial growth factor (VEGF) proteins were analyzed by Western blot and Immohistochemistry (Results The growth rates of HIF-1α treating hepatic cancer cells Hep G_2 were significantly increased. Conclusion Th could promote hepatic cancer cell line Hep G_2 growth in vivo and it s mechanism may be due to the fact that it can promo vascular growth.

Key words: Hypoxia-inducible factor-1alpha Vascular endothelial growth factor Hepatoma

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