

Influence of Wortmannin on the expression of hypoxia-inducible factor-1 alpha and

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Methods **Esophageal carcinoma** cell lines TE1 and TE13 pretreated with ... The **expression** of **HIF-1 α** and **glycolysis** associated genes GLUT-1, LDHA and HK-II ...

[Role of PI3K/Akt-HIF-1 \$\alpha\$ Signaling Pathways on Glycolysis in ...](#)

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Hypoxia-inducible factor1(HIF-1 α) is a key regulator of tissue cells adapting to the hypoxic ... pathway on hypoxia and Warburg **effect** in **esophageal cancer cells**. ... explore the **expression** of **HIF-1 α** and the change of **glycolysis** after blocking PI3K/ Akt ... **Wortmannin** or rapamycin was applied to block the PI3K/Akt pathway, the ...

[Hypoxia inducible factor-1 \$\alpha\$ as a cancer drug target](#)

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HIF-1 activates genes that allow the **cancer cell** to survive and grow in the ... 1, 2). **HIF-1** controls the **expression** of a variety of genes, the protein products of ... **glycolysis**, promotion of **cell** survival, inhibition of apoptosis, inhibition of **cell** ... the literature of the **effects** of the PI3K/AKT pathway on **HIF-1 α** in different **cell** lines (9).

[HIF1A hypoxia inducible factor 1 alpha subunit \[\(human\)\] - NCBI](#)

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HIF-1 thus plays an essential role in embryonic vascularization, **tumor** ... Study showed the **expression** of **HIF-1alpha** can regulate proliferation, **cell** cycle, Studied the **effects** of zeaxanthin on the VEGF and **HIF-1alpha** **expression** in the primary **glycolytic** genes' **expression** through **hypoxia-inducible** transcription factor ...

[Hypoxia-Inducible Factor \(HIF\)-1 Regulatory Pathway and its - NCBI](#)

[www.ncbi.nlm.nih.gov/pmc/articles/PMC2140184/](#)

In contrast, as **HIF-1** allows for survival and proliferation of cancerous **cells** due to its ... As a

Name of Journal: World Journal of Gastroenterology

ESPS Manuscript NO: 22963

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Wortmannin influences hypoxia-inducible factor-1 alpha expression and glycolysis in esophageal carcinoma cells

Ling Zeng, Hai-Yun Zhou, Na-Na Tang, Wei-Feng Zhang, Gui-Jun He, Bo Hao, Ya-Dong Feng, Hong Zhu

Abstract

AIM: To investigate the influence of phosphatidylinositol-3-kinase protein kinase B (PI3K/AKT)-HIF-1 α signaling pathway on glycolysis in esophageal carcinoma cells under hypoxia

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HIF-1 thus plays an essential role in embryonic vascularization, tumor ..., in response to DNA damage induced by ionizing radiation, but there was no influence on ... Study showed the expression of HIF-1alpha can regulate proliferation, cell cycle, glycolytic genes' expression through hypoxia- inducible transcription factor ...

[Hypoxia and the hypoxia-inducible-factor pathway in glioma growth ...](#)

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Activation of the HIF-1 pathway is a common feature of gliomas and may explain ... occur as gliomas progress is the response of a tumor cell to low-oxygen conditions, ... role in negatively regulating HIF-induced gene expression in these tissues. ... However, the level of HIF acetylation is still influenced by hypoxia, as ARD1 ...

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In contrast, as HIF-1 allows for survival and proliferation of cancerous cells due to its ... As a transcription factor, it affects and regulates the expression of dozens of ... in these cancer cells were found ultimately to lead to increased glycolysis and ... may allow for a greater ability to directly influence intracellular HIF-1 levels.

[The Expression and Distribution of the Hypoxia-Inducible Factors ...](#)

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