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12~17.TNF-a通过JNK和AP-1途径调节乳腺癌MCF-7细胞VEGF的表达[J].殷咏梅,束永前,陈晓锋,李 薇,刘凌翔,韩 晓.中国

TNF-q通过JNK和AP-1途径调节乳腺癌MCF-7细胞VEGF的表达 点此下载全文

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摘要:

目的: 探讨肿瘤坏死因子(tumor necrosis factor a , TNF a) 诱导血管内皮生长因子(vascular endothelial grc 以20 ng/ml TNF a处理MCF 7细胞,用Western blotting检测MAPK(JNK, p38, ERK)信号通路中蛋白磷酸化水平的变作 a 1, Fra 2, JunD)的蛋白表达及磷酸化水平的变化,以免疫共沉淀法检测激活后的AP 1存在形式,以RT PCR以及Weste水平,以MAPK抑制剂预处理后,检测VEGF蛋白表达水平,运用ChIP的方法验证p c Jun结合在VEGF启动子区。结果: T1 1;被TNF a激活后AP 1以p c Jun c Jun和p c Jun JunB同源二聚体形式存在,TNF a通过激活转录因子AP 1促进VEGF的 un通过与VEGF启动子AP 1结合参与对VEGF转录的调控。结论:在TNF a作用下,AP 1通过p c jun同源二聚体结合在VEG 转录进行调控

关键词:肿瘤坏死因子-a 血管内皮细胞生长因子 激活蛋白-1 c-Jun N末端激酶

Tumor necrosis factor- \mathbf{a} regulates expression of vascular endothelial growth factor via JNK and APcells $\underline{Download\ Fulltext}$

YIN Yong mei SHU Yong qian CHEN Xiao feng LI Wei LIU Ling xiang HAN Xiao

Tumor necrosis factor ${\bf q}$ regulates expression of vascular endothelial growth factor via JNK and AP 1 pathwa factor ${\bf q}$ regulates expression of vascular endothelial growth factor via JNK and AP 1 pathwa factor ${\bf q}$ regulates expression of vascular endothelial growth factor via JNK and AP 1 pathway in MCF regulates expression of vascular endothelial growth factor via JNK and AP 1 pathway in MCF 7 cells; Texpression of vascular endothelial growth factor via JNK and AP 1 pathway in MCF 7 cells; Tumor necrof vascular endothelial growth factor via JNK and AP 1 pathway in MCF 7 cells; Tumor necrof vascular endothelial growth factor via JNK and AP 1 pathway in MCF 7 cells

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Abstract:

Objective: To investigate the mechanism by which tumor necrosis factor $_{\tt Q}$ (TNF $_{\tt Q}$) induces expression factor(VEGF) in MCF 7 cells. Methods: MCF 7 cells were treated with TNF $_{\tt Q}$ (20 ng/ml) for different time p to detect the phosphorylation of MAPK pathway proteins (JNK, P38, and ERK) and the expression and ph members(c Jun, Jun B, c Fos, Fra 1, Fra 2, JunD). The activation of AP 1 was detected by immunoprecipl blotting were used to detect the VEGF mRNA and protein expression. The VEGF protein expression was with inhibitor of MAPK. ChIP method was used to verify the binding of p c Jun to the promoter region of V through JNK signal pathway. AP 1 existed in the form of p c Jun c Jun and p c Jun JunB homodimer after a transcription by activating transcriptional factor AP 1 and result in increased expression of VEGF prot transcription of VEGF through binding to the AP 1 site of VEGF. Conclusion: TNF $_{\tt Q}$ can mediate the transc dependent pathway.

Keywords: tumor necrosis factor-q(TNF-q) vascular endothelial growth factor(VEGF) activator protein 1

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