

## ZHONGLIU FANGZHI YANJIU

Cancer Research on Prevention and Treatment

首页 | 期刊介绍 | 编 委 会 | 期刊订阅 | 杂志稿约 | 广告服务 | 联系我们 | 留言板 | English

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最新目录 | 下期目录 | 过刊浏览 | 高级检索

## 一类新的AP-2α转录共激活物Ku 70蛋白的鉴定

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## Identification of ku70 as a Novel Transcriptional Coactivator of AP-2a

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- 摘要
- 参考文献
- 相关文章

全文: PDF (769 KB) HTML (0 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 目的

鉴定新的AP-2a转录共激活物,为乳腺癌的防治寻找新的靶点。

方法

以AP 2g为诱饵采用酵母双杂交技术寻找新的AP-2g结合蛋白,免疫共沉淀证实AP-2g与其结合蛋白的相互作用,免疫荧光技术检 测AP-2a与其结合蛋白的亚细胞共定位。荧光素酶报导基因检测AP-2a结合蛋白对AP-2a转录活性的影响。

酵母双杂交技术鉴定出Ku 70蛋白为新的AP-2a结合蛋白。免疫共沉淀证实了AP-2a和Ku 70蛋白在细胞内的相互作用。亚细胞共定 位研究显示AP-2a和Ku 70蛋白都定位于细胞核内。在功能上发现Ku70可以增强AP-2a的转录活性。

本研究首次揭示Ku70可以结合AP-2a并促进其转录活性,证明Ku70是一类新的AP-2a的转录共激活物,提示Ku70有望成为治疗 AP-2g高表达乳腺癌的新靶点。

关键词: AP-2a 酵母双杂交 Ku70 转录共激活物

Abstract: Objective

To identificate a novel transcriptional coactivator of AP-2a and explore new therapeutic target for AP-2a overexpressed breast cancers.

Methods

AP-2q, as a bait, and its interactive proteins were detected by yeast two hybrid technique. The interaction between AP-2<sub>a</sub> and its interacting partner was verified by co immunoprecipitation assay. The subcellular colocalization of AP-2q and its interacting partner was detected by immunofluorescence technique. Luciferase assay was performed to characterize the effect of AP-2<sub>0</sub> interacting protein on the transcriptional activity of AP-2a.

Results

Ku70 was identified as a novel interactive protein of AP-2<sub>a</sub> by yeast two hybrid technique. The interaction between AP-2g and Ku70 in cells was verified by co immunoprecipitation assay. Furthermore, both AP-2g and Ku70 are colocalized in nucleus. Functionally we found that Ku70 can increase transcriptional activity of AP-2a. Conclusion

This study for the first time reveals that Ku70 can bind with AP-2<sub>a</sub> and enhance its transcriptional activity. Our results demonstrate that Ku70 is a novel transcriptional coactivator of AP 2<sub>q</sub> and suggest that Ku70 is a potential new therapeutic target for AP-2<sub>a</sub> overexpressed breast cancers.

Key words: AP-2a Yeast two-hybrid Ku70 Transcriptional coactivator

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