

核基质结合区结合蛋白SATB1上调乳腺癌干细胞表型CD44+/CD24-的表达

陈忠清[△],张乔安,包芸,周仲文,许祖德

复旦大学附属华山医院病理科上海200040

Nuclear matrix attachment region binding protein SATB1 up-regulates the expression of breast cancer stem cell phenotype CD44+/CD24-

CHEN Zhong-qing[△], ZHANG Qiao-an, BAO Yun, ZHOU Zhong-wen, XU Zu-de

Department of Pathology, Huashan Hospital, Fudan University, Shanghai 200040, China

摘要 图/表 参考文献 相关文章 (0)

全文: PDF (925 KB) HTML (0 KB)

输出: BibTeX | EndNote (RIS) 背景资料

摘要

目的 探讨核基质结合区结合蛋白,富含A-T序列特异性结合蛋白1(special A-T rich sequence binding protein 1, SATB1)对乳腺癌干细胞表型CD44+/CD24-的影响及机制。方法 用SATB1相关小干扰RNA(SATB1 related small interfering RNA, SATB1-siRNA)双链寡核糖核酸干扰MDA-MB-231细胞;pEGFP-N1-SATB1-GFP真核表达质粒瞬时转染MCF7细胞后,流式细胞术检测SATB1对乳腺癌干细胞表型CD44+/CD24-表达的影响。结果 MCF7细胞转染SATB1后,表达CD44+/CD24-的细胞比例明显升高;MDA-MB-231细胞在SATB1-siRNA干扰后,表达CD44+/CD24-的细胞比例明显降低(P<0.05)。结论 SATB1可能在形成并维持乳腺癌肿瘤干细胞特性中起重要作用。

关键词 : A-T序列特异性结合蛋白1(SATB1), 乳腺癌干细胞 (BrCSC), CD44+/CD24-

Abstract :

Objective To investigate the influence and mechanism of nuclear matrix attachment region binding protein, special A-T rich sequence binding protein 1 (SATB1) in the expression of breast cancer stem cells phenotype CD44+/CD24-. Methods SATB1 related small interfering RNA (SATB1-siRNA) duplex oligoribonucleotides were transfected into MDA-MB-231 cells, and pEGFP-N1-SATB1-GFP eukaryon expression plasmids were transiently transfected into MCF7. Flow cytometry assay was used to evaluate the effects of SATB1 in the expression of the phenotype of breast cancer stem cells CD44+/CD24-. Results The population of breast cancer cells with CD44+/CD24- phenotype was significantly increased by inducing SATB1 into MCF7 cells. Conversely, it was obviously decreased by knocking down SATB1 in MDA-MB-231 cells (P<0.05). Conclusions SATB1 may play a key role in the formation and maintaining of the breast cancer stem cell characteristics.

Key words : special A T rich sequence binding protein 1 (SATB1) breast cancer stem cells (BrCSC) CD44+/CD24-

引用本文:

陈忠清[△],张乔安,包芸,周仲文,许祖德. 核基质结合区结合蛋白SATB1上调乳腺癌干细胞表型CD44+/CD24-的表达[J]. 复旦学报(医学版), 2013, 40(03): 309-. CHEN Zhong-qing[△], ZHANG Qiao-an, BAO Yun, ZHOU Zhong-wen, XU Zu-de. Nuclear matrix attachment region binding protein SATB1 up-regulates the expression of breast cancer stem cell phenotype CD44+/CD24-. jms, 2013, 40(03): 309-.

链接本文:

<http://jms.fudan.edu.cn/CN/10.3969/j.issn.1672-8467.2013.03.011> 或 <http://jms.fudan.edu.cn/CN/Y2013/V40/I03/309>

服务

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ E-mail Alert
- ▶ RSS

作者相关文章

主管单位: 中华人民共和国教育部

主办单位: 复旦大学

编辑出版: 《复旦学报(医学版)》编辑部

地址: 上海市医学院路138号285信箱

邮编: 200032

电话: 021-54237314, 54237164

E-mail: xbyxb@shmu.edu.cn

刊号: ISSN 1672-8467 CN 31-1885/R

主编: 桂永浩

国内发行: 上海市报刊发行处

国外发行: 中国国际图书贸易总公司(北京399信箱, 邮编100044)

邮发代号: 国内4-262 国外 BM199

版权所有 © 2018 《复旦学报(医学版)》编辑部

本刊全文数据库版权所有, 未经许可, 转载、链接及印刷或制作光盘均属违法, 本刊将保留追究法律责任的权利。