

Accepted Manuscript

Title: RNAi-mediated SYT14 knockdown inhibits the growth of human glioma cell line U87MG

Authors: Bin Sheng, Yuxin Jiang, Degang Wu, Niansheng Lai, Zhennan Ye, Bingbing Zhang, Xinggen Fang, Shanshui Xu



PII: S0361-9230(17)30556-7
DOI: <https://doi.org/10.1016/j.brainresbull.2018.04.002>
Reference: BRB 9408

To appear in: *Brain Research Bulletin*

Received date: 18-9-2017
Revised date: 4-12-2017
Accepted date: 4-4-2018

Please cite this article as: Bin Sheng, Yuxin Jiang, Degang Wu, Niansheng Lai, Zhennan Ye, Bingbing Zhang, Xinggen Fang, Shanshui Xu, RNAi-mediated SYT14 knockdown inhibits the growth of human glioma cell line U87MG, *Brain Research Bulletin* <https://doi.org/10.1016/j.brainresbull.2018.04.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

RNAi-mediated SYT14 knockdown inhibits the growth of human glioma cell line U87MG

Bin Sheng^{a,1}, Yuxin Jiang^{b,1}, Degang Wu^a, Niansheng Lai^a, Zhennan Ye^c
Bingbing Zhang^a, Xinggen Fang^{a,*}, Shanshui Xu^{a,*}

^a Department of Neurosurgery, Yijishan Hospital of Wannan Medical College, Wuhu City, Anhui, 241001, China

^b Department of Physiology, School of Basic Medicine, Wannan Medical College, Wuhu City, Anhui, 241000, China

^c Department of Neurosurgery, The Second Affiliated Hospital of Guangzhou Medical University, Guangzhou City, Guangdong, 510000, China

* Corresponding author at: 2 Zheshan Road, Wuhu City, Anhui, 241001, China

* Corresponding authors.

E-mail address: wyswxss66@126.com (S.S. Xu),

18805536056@163.com (X.G. Fang)

¹ These two authors contributed equally to this work.

Highlight:

- Lentivirus-mediated small hairpin RNAs could silence the SYT14 gene.
- Knockdown of SYT14 promotes U87MG cell apoptosis
- Knockdown of SYT14 inhibits U87MG cell proliferation and colony formation.

Abstract: SYT14 (Synaptotagmin 14) participates in pathomechanical neurodegeneration and contributes to abnormal neurodevelopment. However, the functional mechanism of SYT14 in human glioma tumorigenesis remains unclear. In the present study, we measured the expression levels of SYT14 mRNA in human glioma cell lines, U373MG, U178, and U87MG and neural

Download English Version:

<https://daneshyari.com/en/article/8838843>

Download Persian Version:

<https://daneshyari.com/article/8838843>

[Daneshyari.com](https://daneshyari.com)