Overexpression of SERPINA3 promotes tumor invasion and migration, epithelial-mesenchymal-transition in triple negative breast cancer cells

Yingzi Zhang[1], JiaoTian[1], Chi Qu[1], Yang Peng[1], Jinwei Lei[1], Kang Li[1], Beige Zong[1], Lu Sun[1], Shengchun Liu[1]*

[1]Department of Endocrine Breast Surgery, The First Affiliated Hospital of Chongqing Medical University, 1 Yixueyuan Road, Yuanjiagang, Yuzhong district, Chongqing, China.

* Corresponding author: Shengchun Liu

E-mail addresses:

liushengchun1968@163.com

Author's details

Yingzi Zhang[1]: Email: zhangyingzi119@163.com

JiaoTian[1]: Email: 424045196@qq.com

Chi Qu[1]: Email: 565540717@qq.com

Yang Peng[1]: Email: pengyangpoop6@qq.com

Jinwei Lei[1]: Email: leijinweihenan@126.com

Kang Li[1]: Email: likang@stu.cqmu.edu.cn

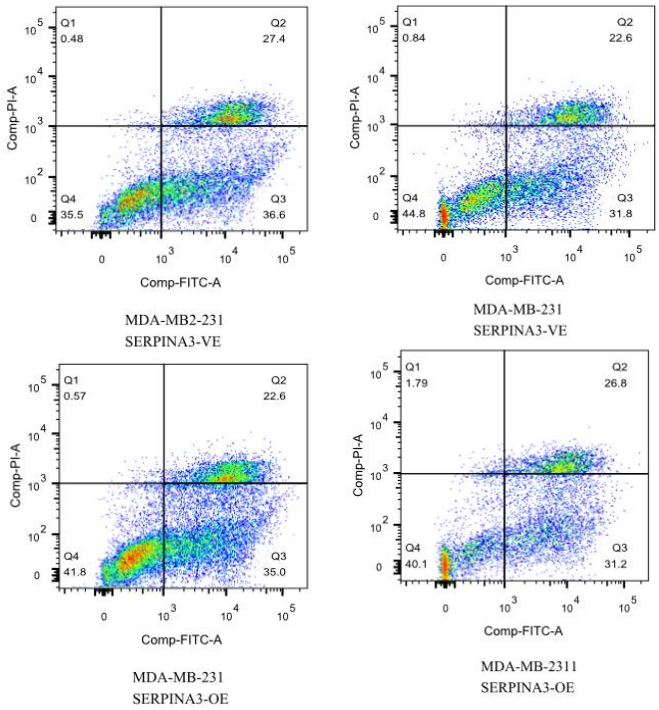
Beige Zong[1]: Email: 504715943@qq.com

Lu Sun[1]: Email: 234952552@qq.com

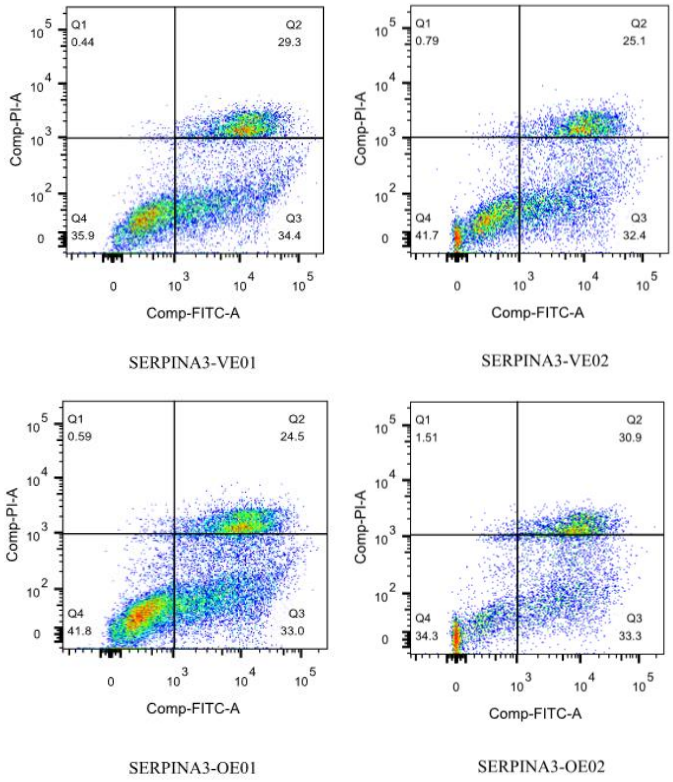
Shengchun Liu[1]*: Email: liushengchun1968@163.com

Online Resource 3

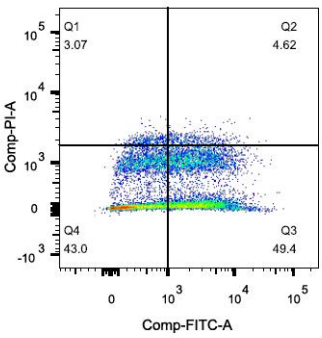
A



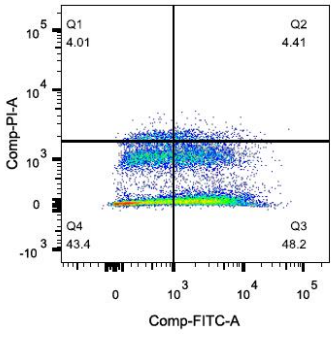
B



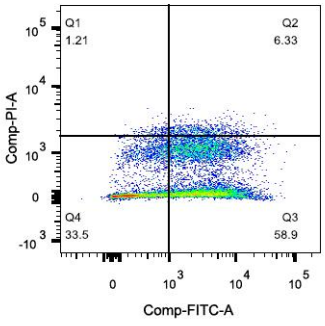
C



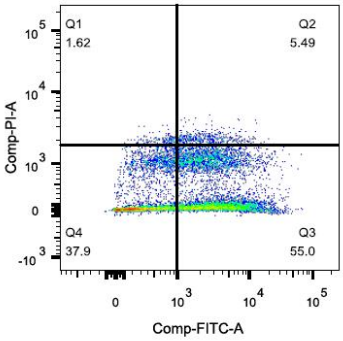
MCF-7
SERPINA3-VE01



MCF-7
SERPINA3-VE03

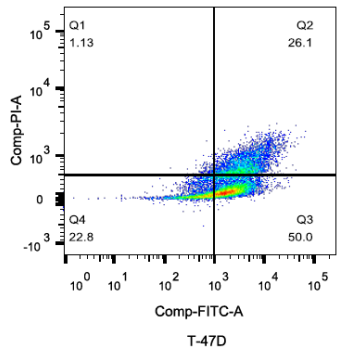


MCF-7
SERPINA3-OE01

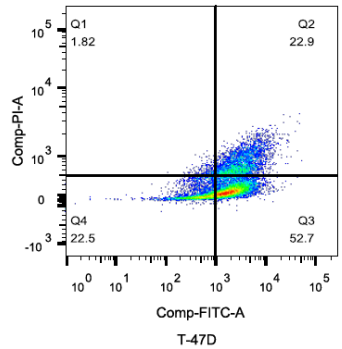


MCF-7
SERPINA3-OE03

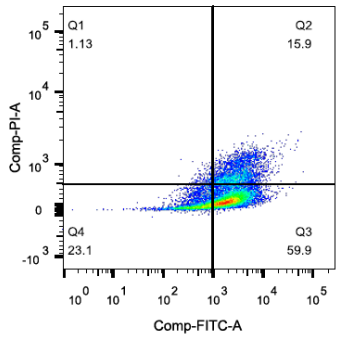
D



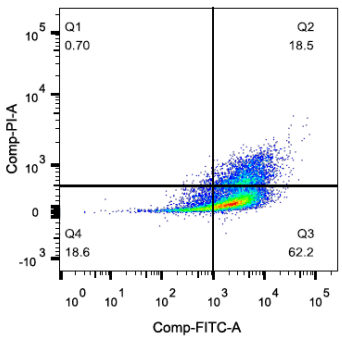
T-47D
SERPINA3-VE01



T-47D
SERPINA3-VE02



T-47D
SERPINA3-OE01



T-47D
SERPINA3-OE02

SERPINA3 influenced on TNBC cell apoptosis

a, b Flow cytometric assay was employed to analyze the cell apoptosis of TNBC cells

The percentage of cells in the early apoptosis phase was not evidently decreased, compared with the control group in MDA-MB-231 and MDA-MB-436.

c, d Flow cytometric assay was employed to analyze the cell apoptosis of non-TNBC cells

The percentage of cells in the early apoptosis phase was not evidently decreased either, compared with the control group in MCF-7 and T-47D.