

Effect of Wnt5a on drug resistance in estrogen receptor-positive breast cancer

Ai Amioka¹⁾, Takayuki Kadoya¹⁾, Satoshi Sueoka¹⁾, Yoshie Kobayashi¹⁾, Shinsuke Sasada¹⁾, Akiko Emi¹⁾, Norio Masumoto¹⁾, Masaoki Ito¹⁾, Koh Nakayama²⁾, Morihito Okada¹⁾

1) Department of Surgical Oncology, Research Institute for Radiation Biology and

Medicine, Hiroshima University, 1-2-3 Kasumi, Minami-Ku, Hiroshima 734-8551,

Japan

2) Oxygen Biology Laboratory, Medical Research Institute, Tokyo Medical and Dental

University, Bunkyo-ku, Tokyo 113-8510, Japan

Corresponding author:

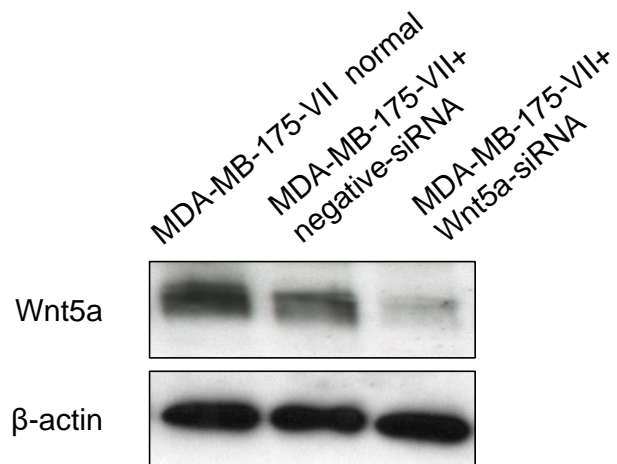
Takayuki Kadoya, M.D, Ph.D

Email: takayukikadoya@gmail.com

Tel.: +81-082-257-5869

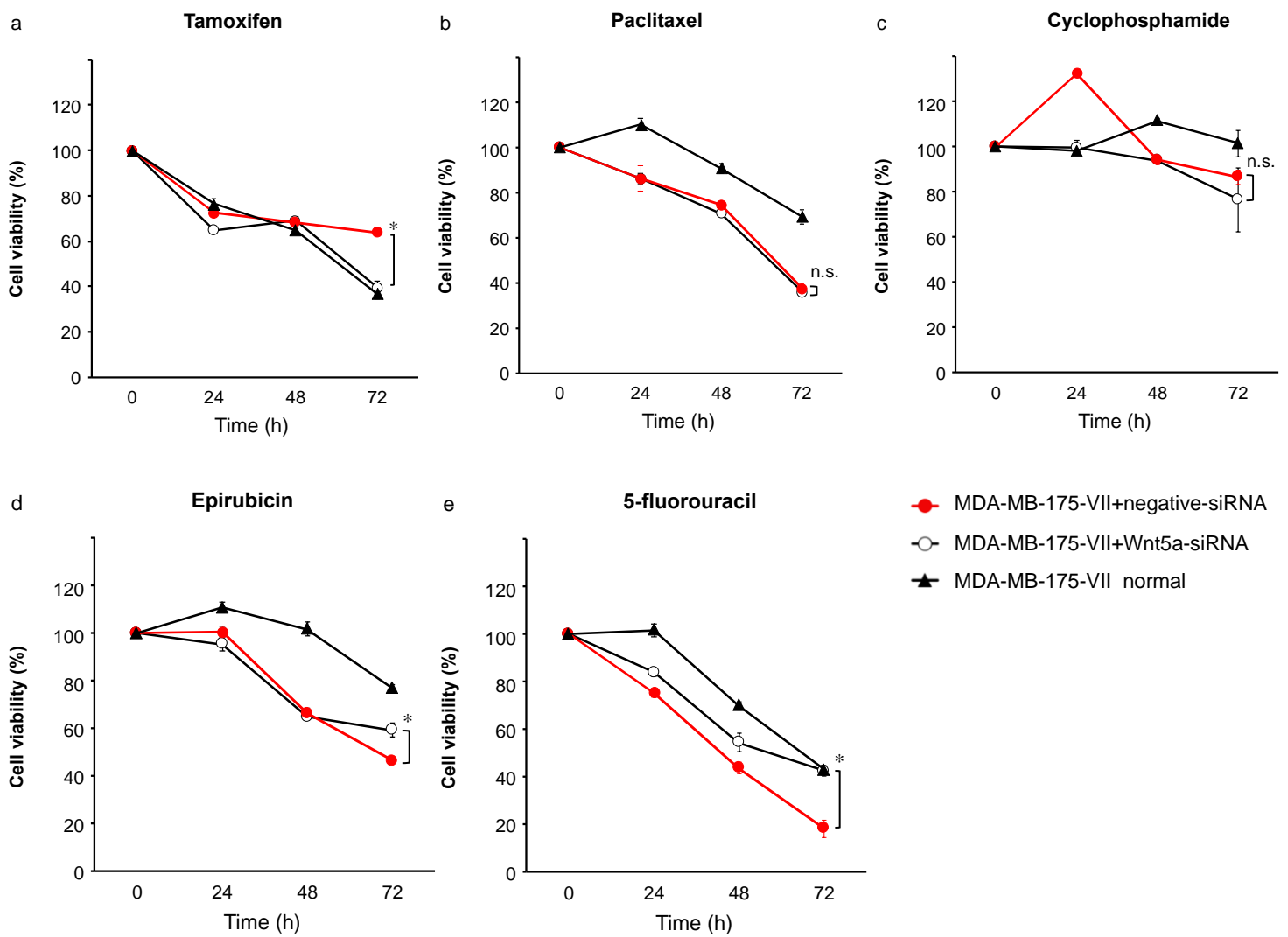
Fax: +81-082-256-7109

Online Resource 6



siRNA transfection of MDA-MB-175-VII cells

MDA-MB-175-VII is a breast cancer cell line ER-positive and HER2-negative, like MCF-7 cells; however, unlike MCF-7 cells, MDA-MB-175-VII cells endogenously express Wnt5a. Twenty-four hours after Wnt5a-siRNA transfection, western blot was performed to confirm that Wnt5a was knocked down.



The expression of Wnt5a diminishes the sensitivity to tamoxifen

MDA-MB-175-VII cells were exposed to 5 μ M tamoxifen (a), 200 nM paclitaxel (b), 200 μ M cyclophosphamide (c), 100 nM epirubicin (d), and 400 μ M 5-fluorouracil (e). Data are represented as the mean \pm S.D. of 6 measurements. * $P < 0.05$; n.s., not significant.