

Surface chemistry but not aspect ratio mediates the biological toxicity of gold nanorods in vitro and in vivo

Jiali Wan¹, Jia-Hong Wang², Ting Liu¹, Zhixiong Xie¹, Xue-Feng Yu², Wenhua Li^{1*}

¹College of Life Sciences, Wuhan University, Wuhan 430072, P R China;

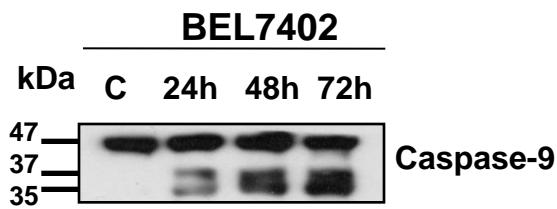
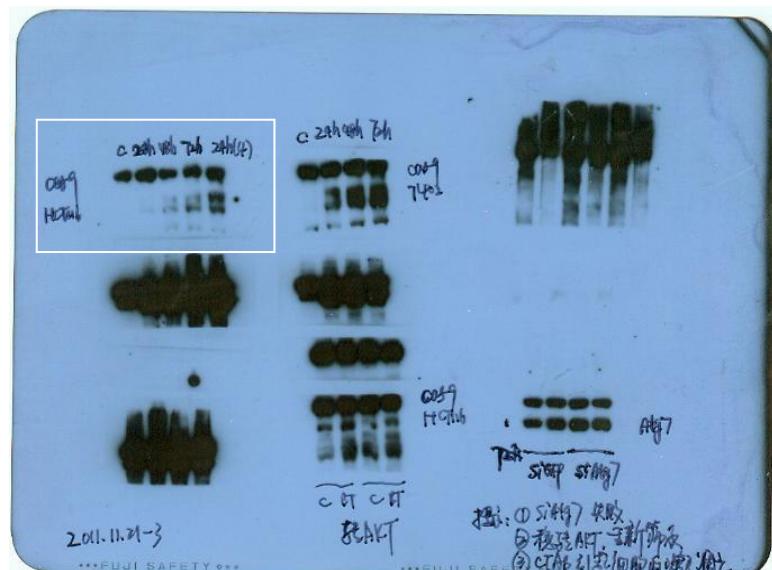
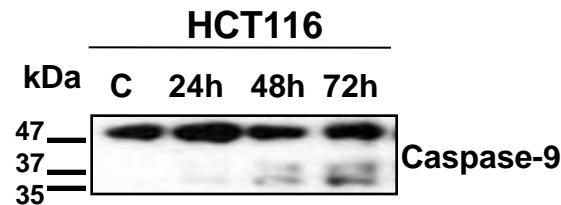
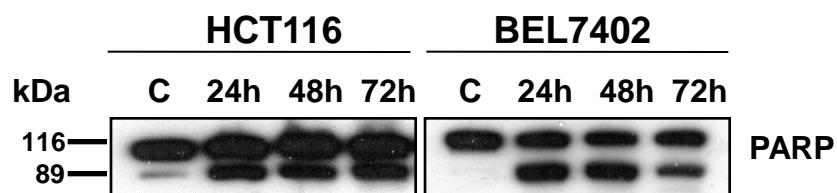
²Key Laboratory of Artificial Micro- and Nano-Structures of Ministry of Education, School of Physics and Technology, Wuhan University, Wuhan 430072, China

*Corresponding author: Wenhua Li

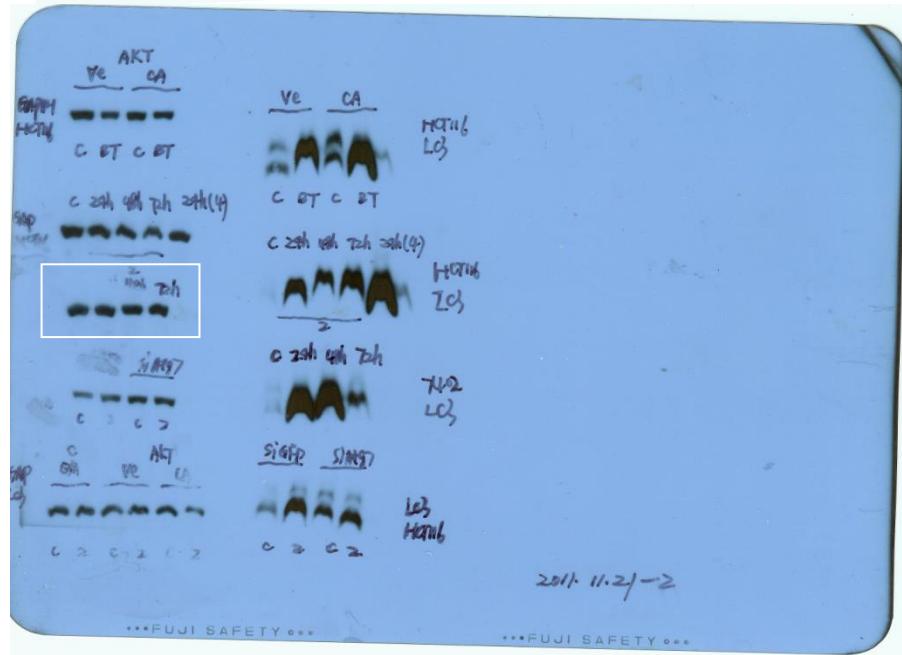
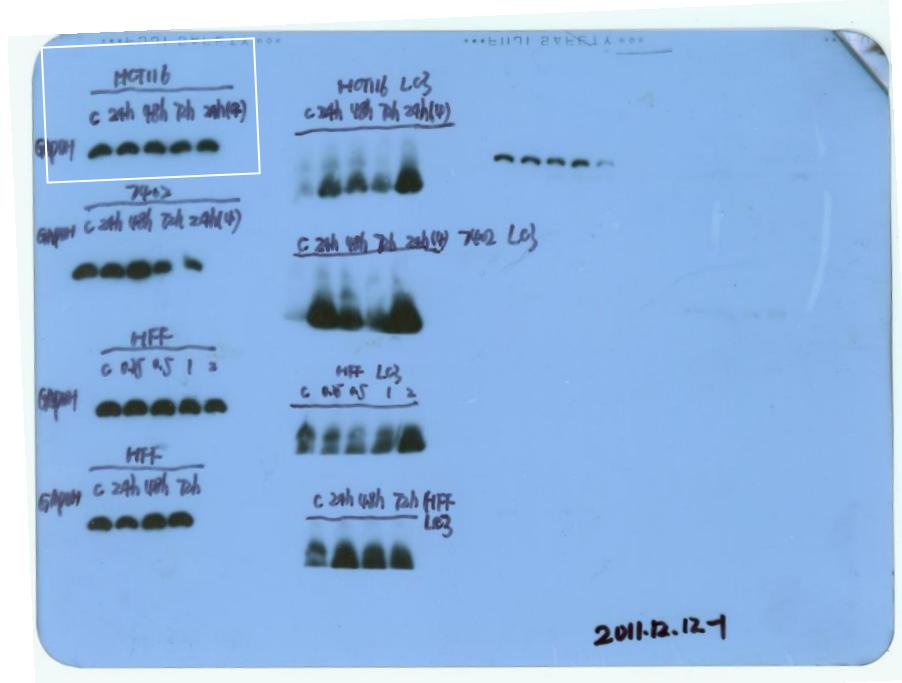
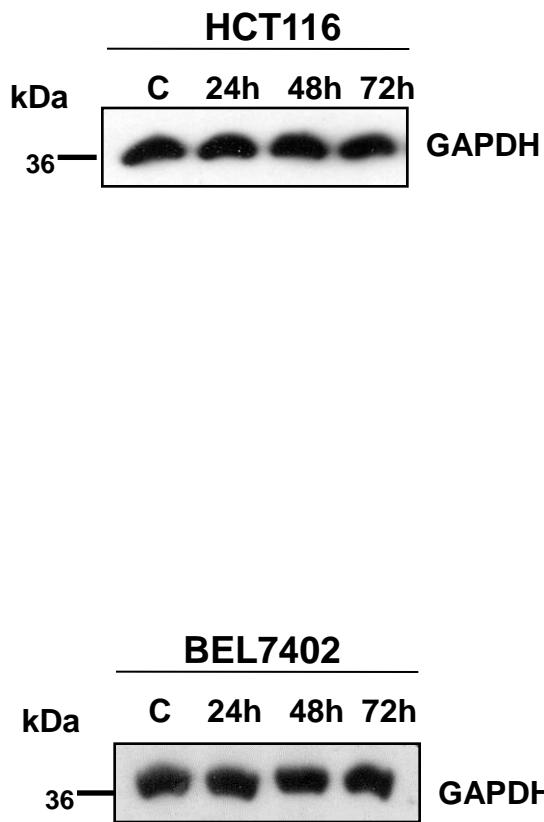
Email: whli@whu.edu.cn

Tel: +86-027-68756711

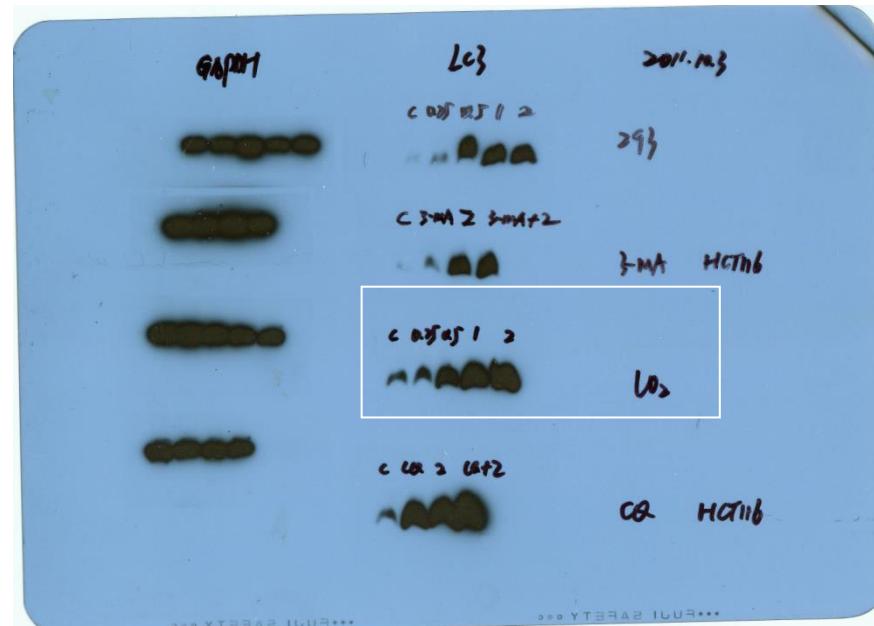
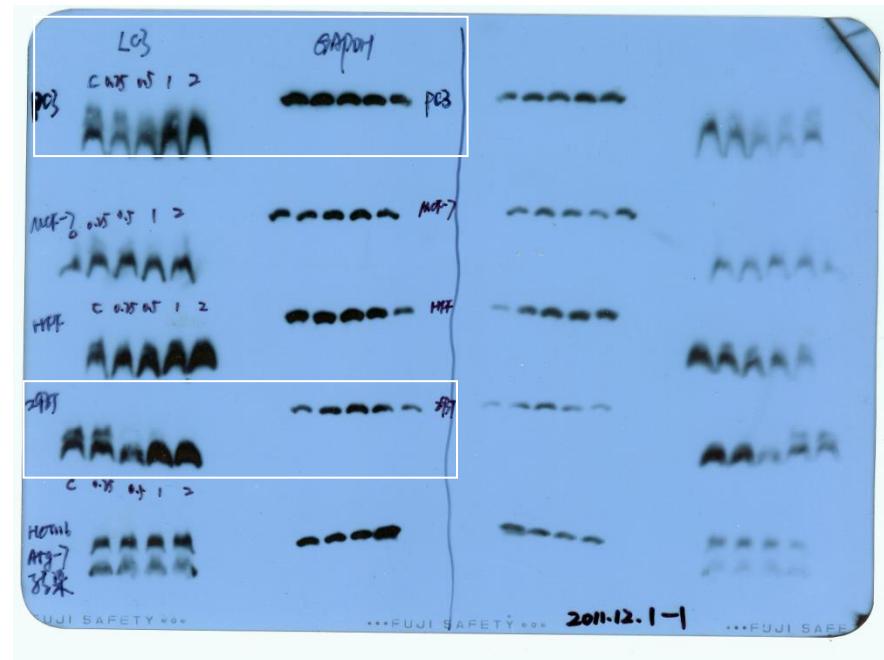
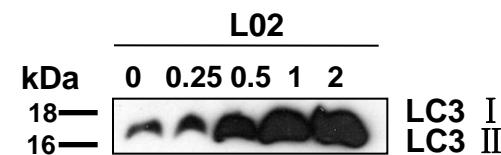
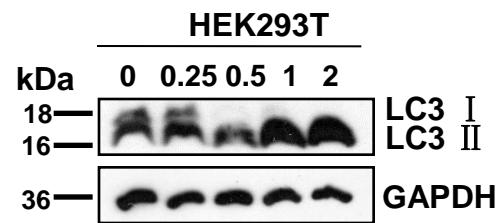
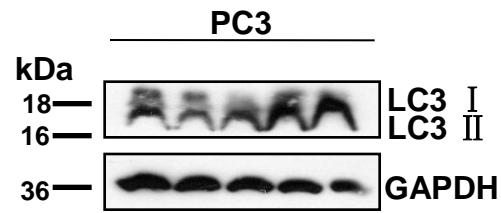
Fax: +86-027-68756711



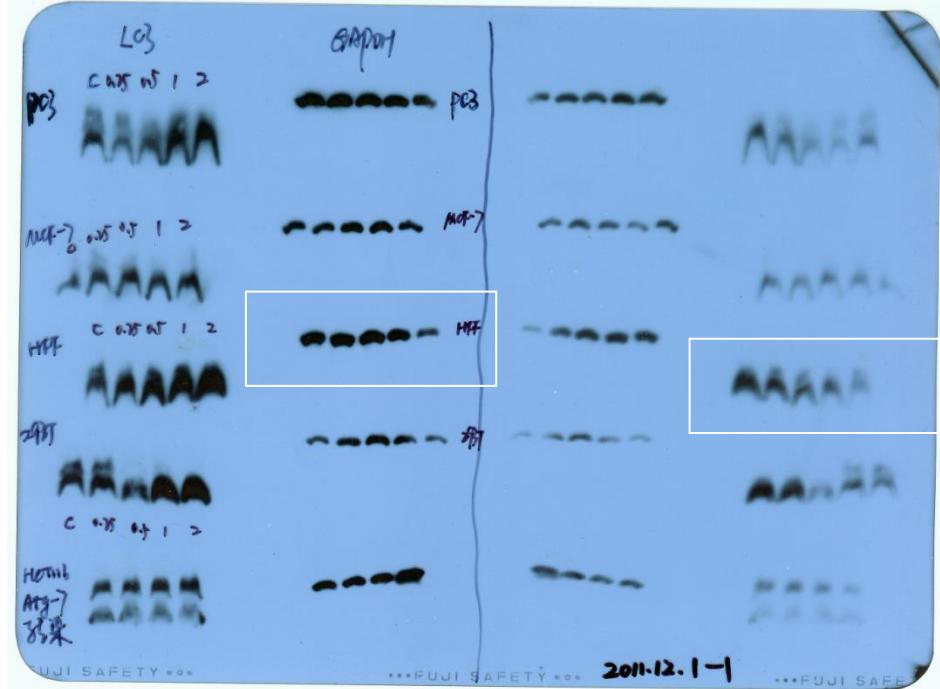
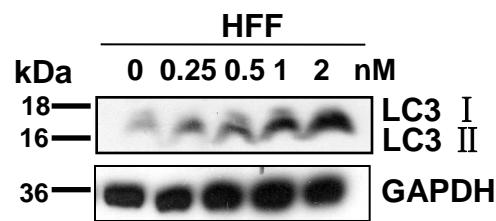
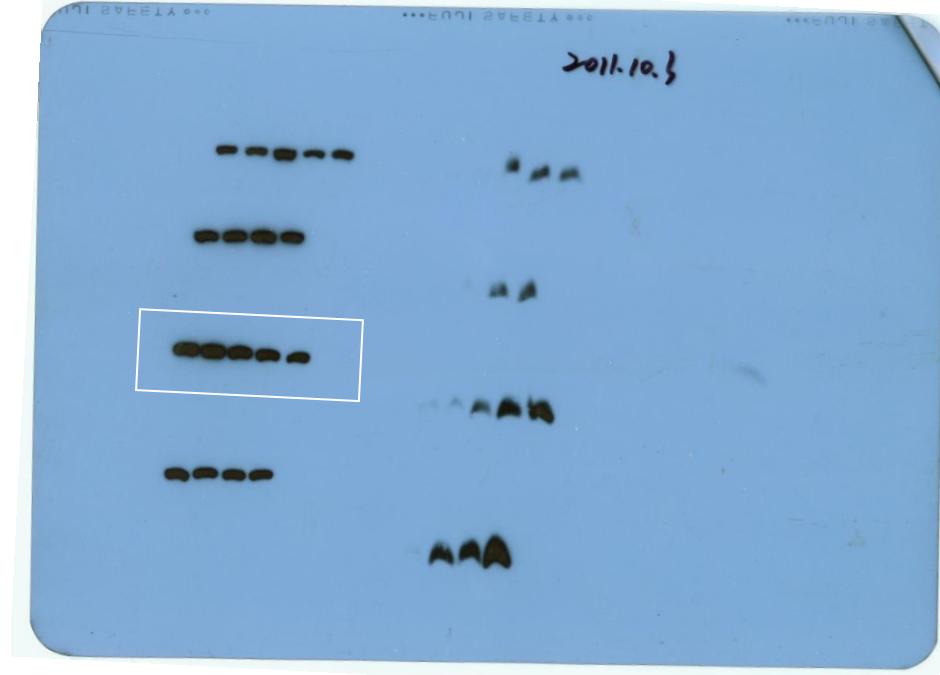
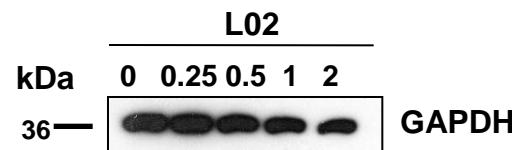
Supplementary Figure 1



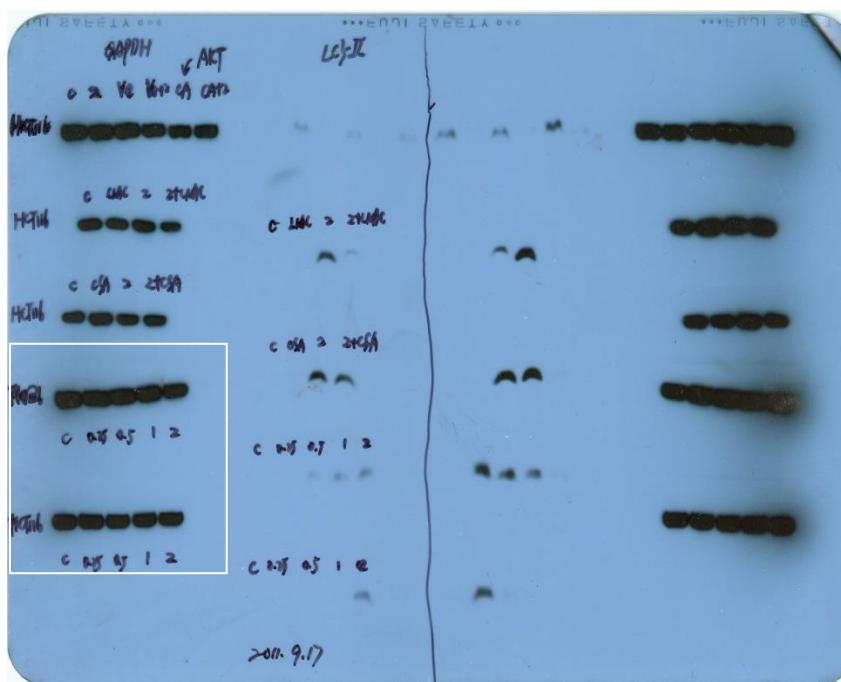
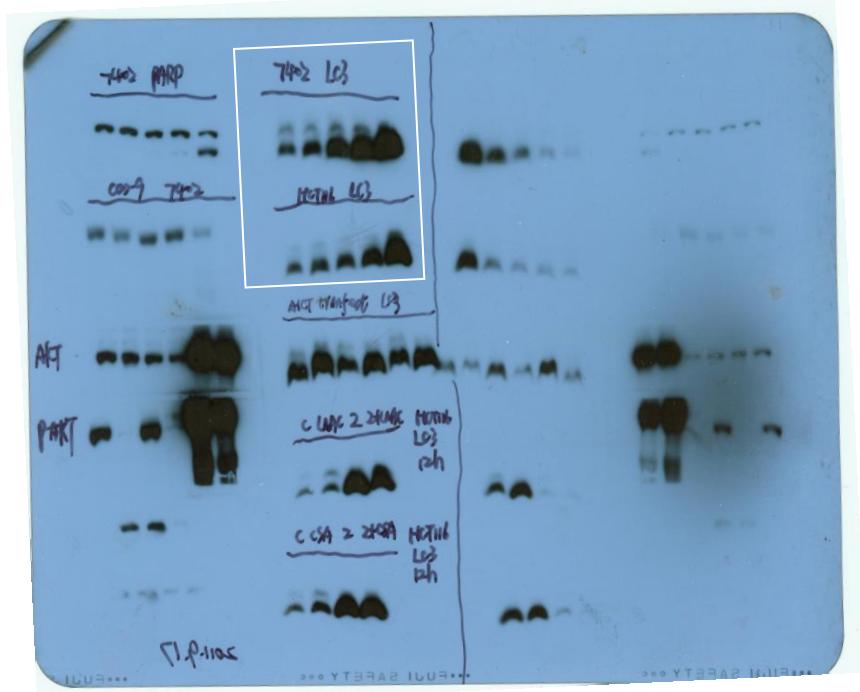
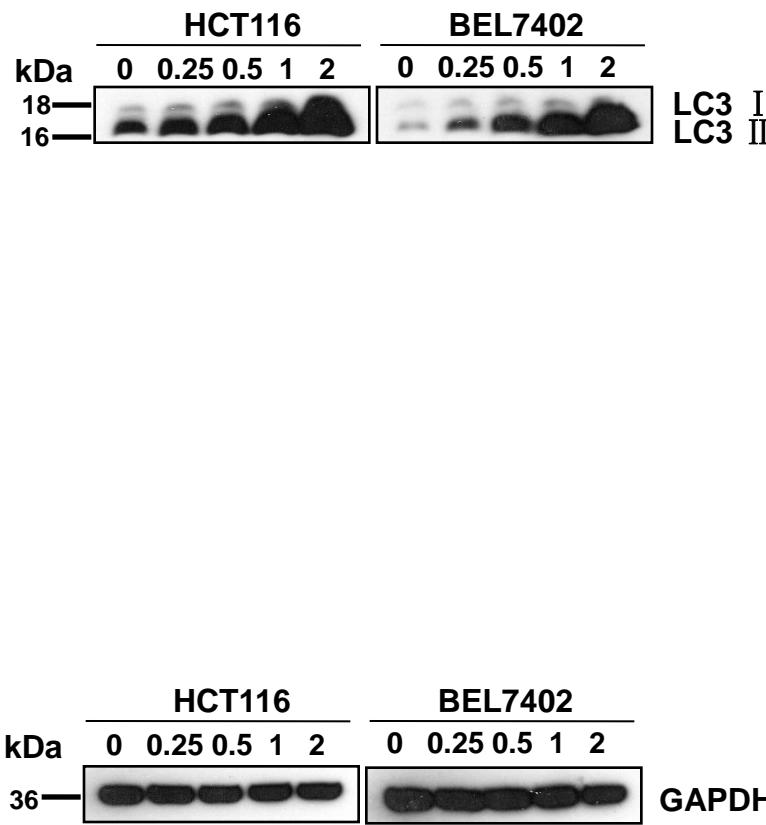
Supplementary Figure 1



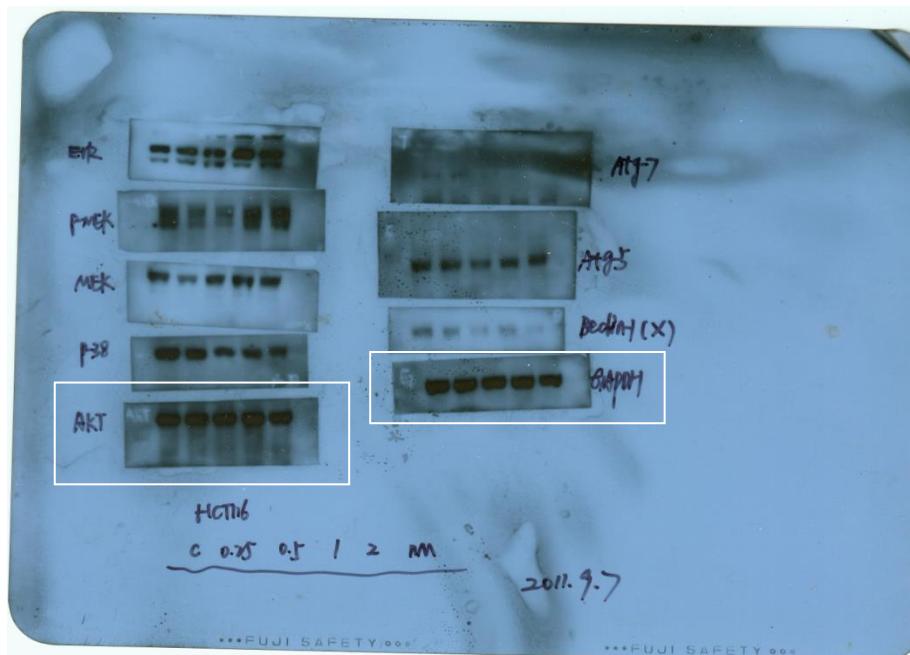
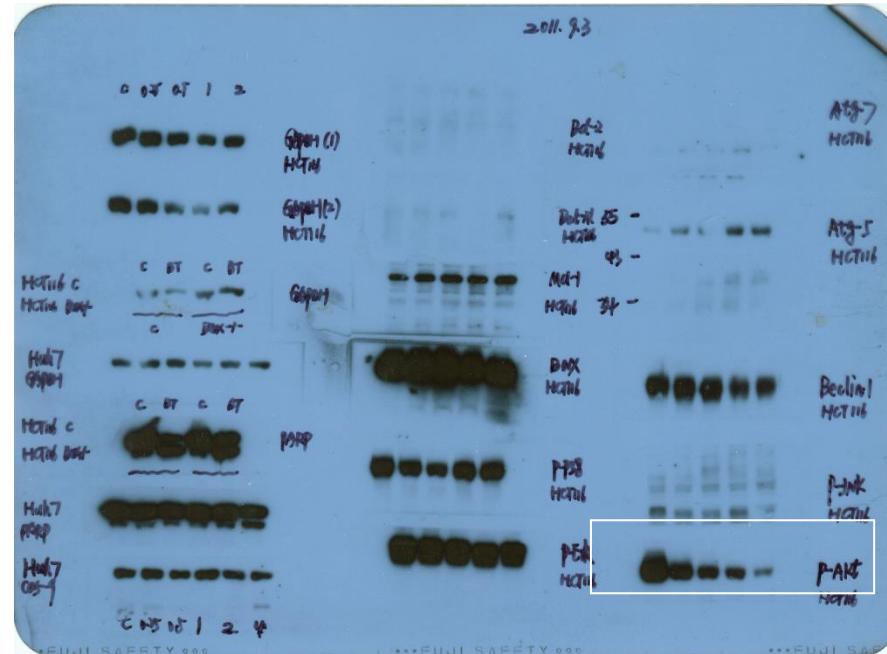
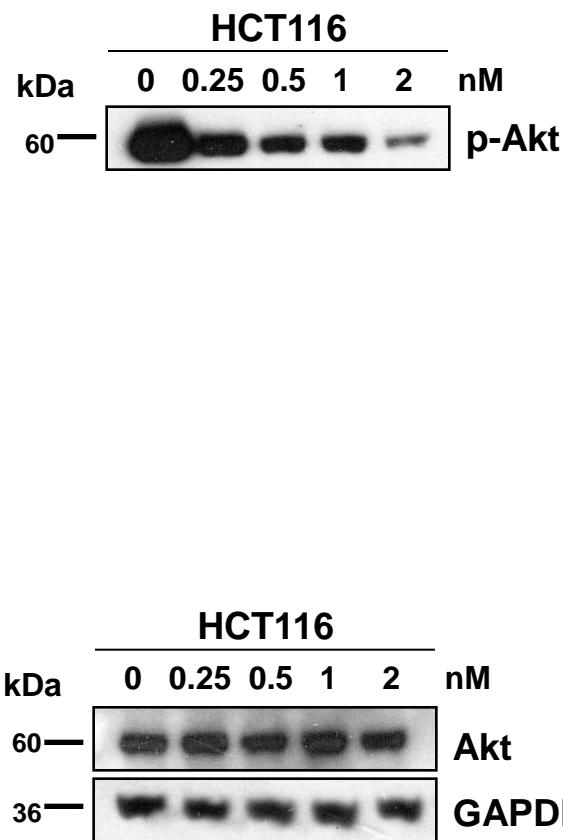
Supplementary Figure 2



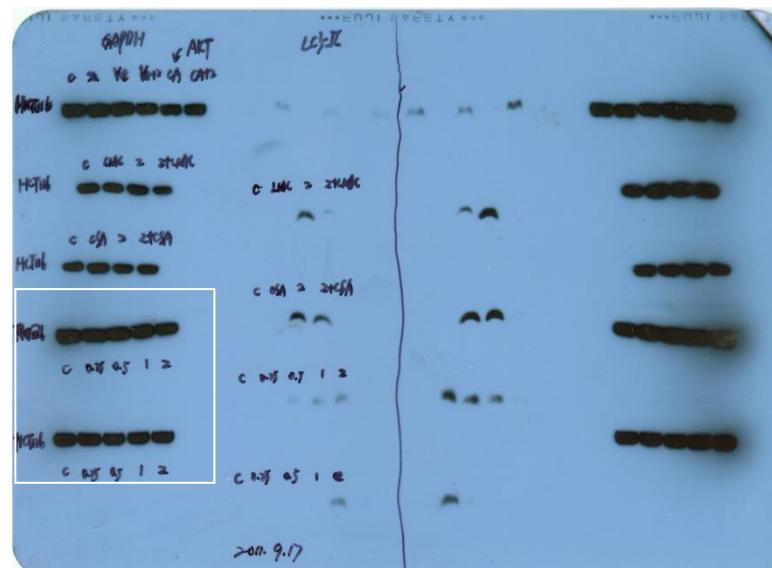
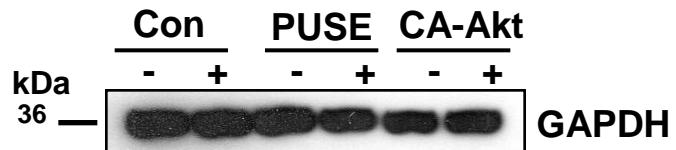
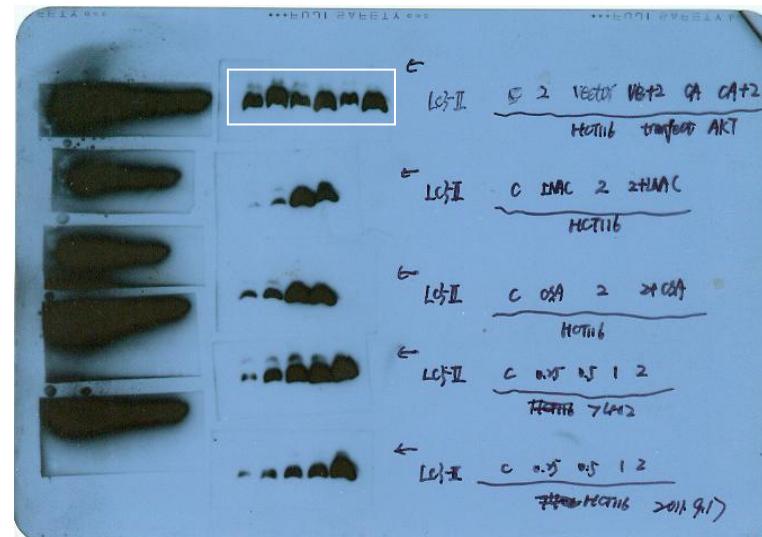
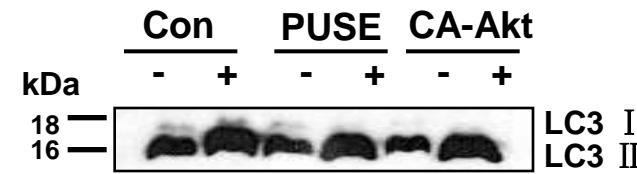
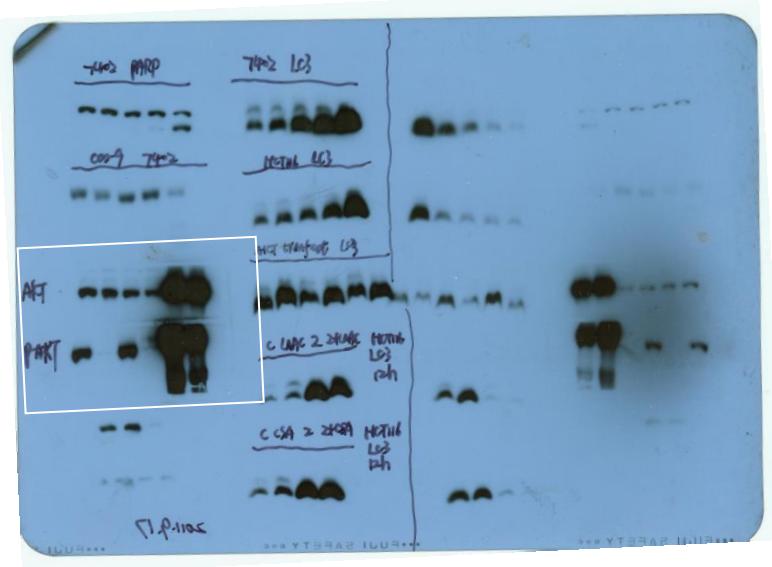
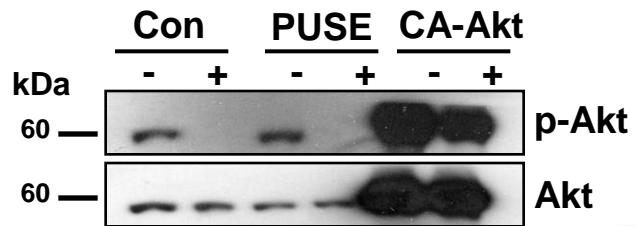
Supplementary Figure 2



Supplementary Figure 2



Supplementary Figure 2



Supplementary Figure 2

HCT116

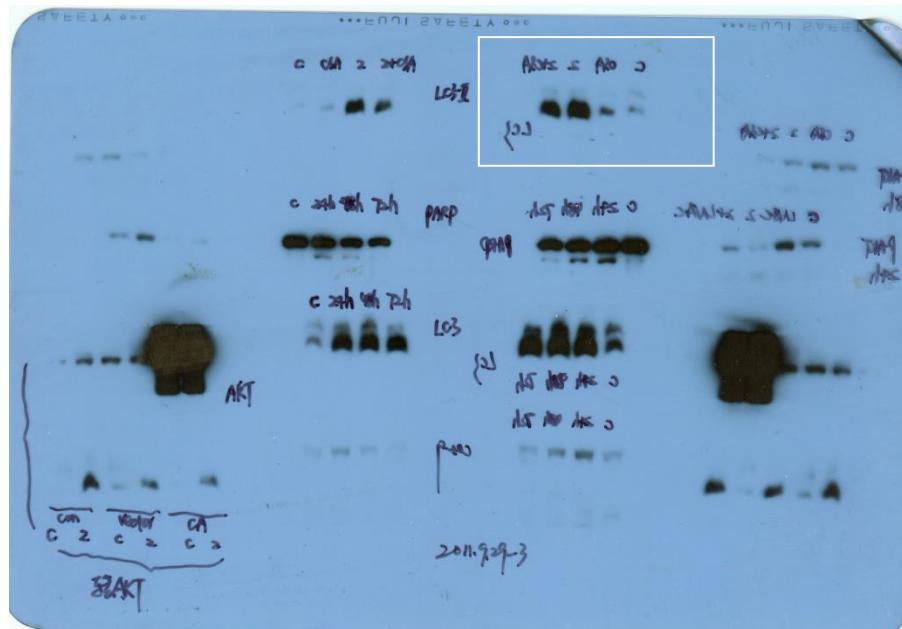
CTAB-GNRs: - - + +

CsA : - + - +



LC3 I
LC3 II

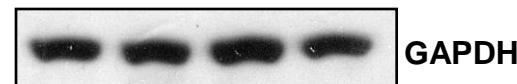
GAPDH



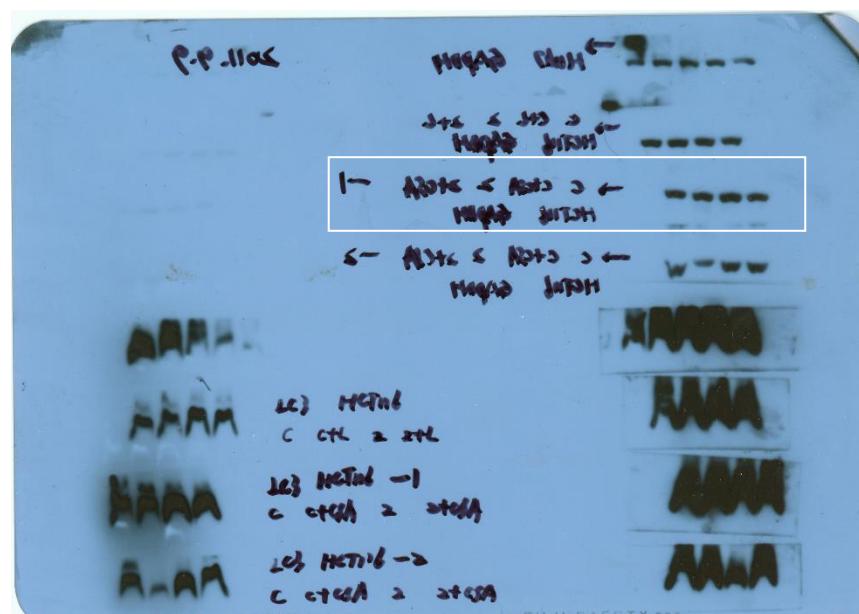
HCT116

CTAB-GNRs: - - + +

CsA : - + - +



GAPDH



Supplementary Figure 3

HCT116

CTAB-GNRs: - - + +

NAC: - + - +

kDa

18

16

LC3 I
LC3 II

HCT116

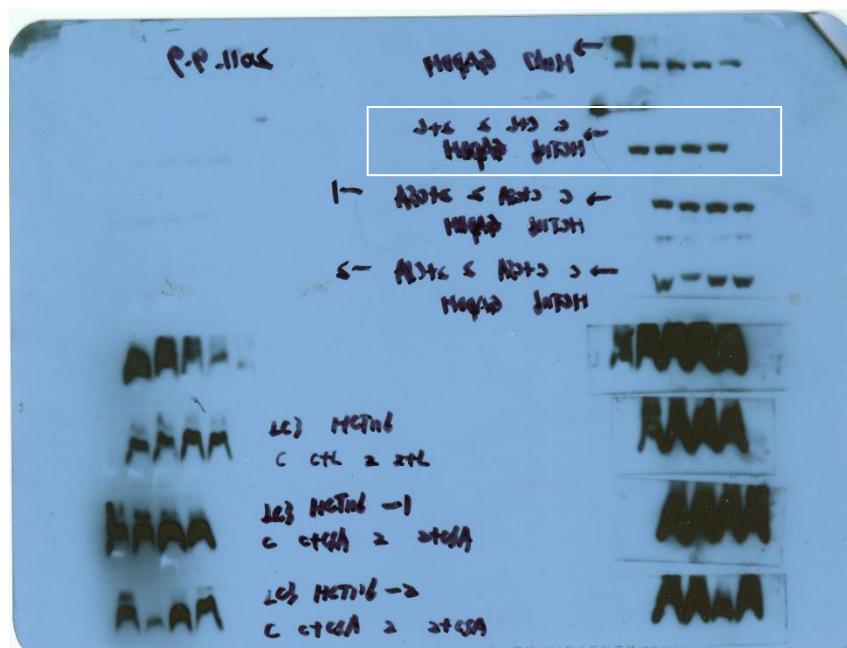
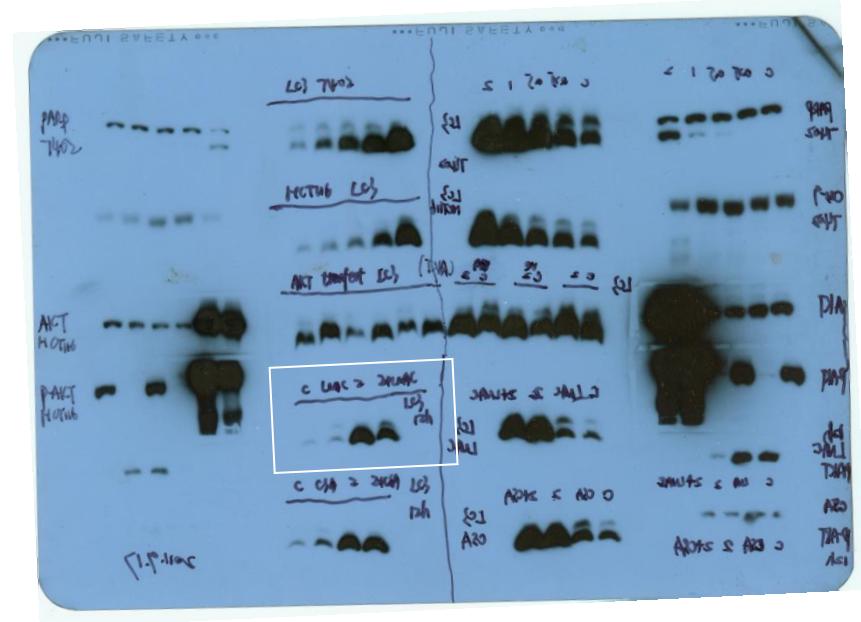
CTAB-GNRs: - - + +

NAC: - + - +

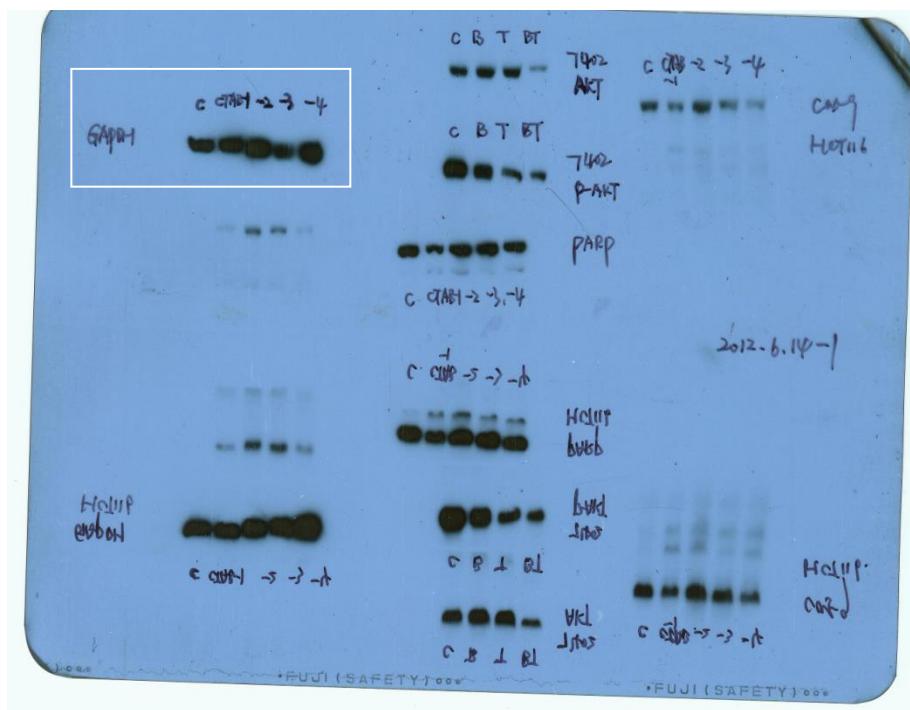
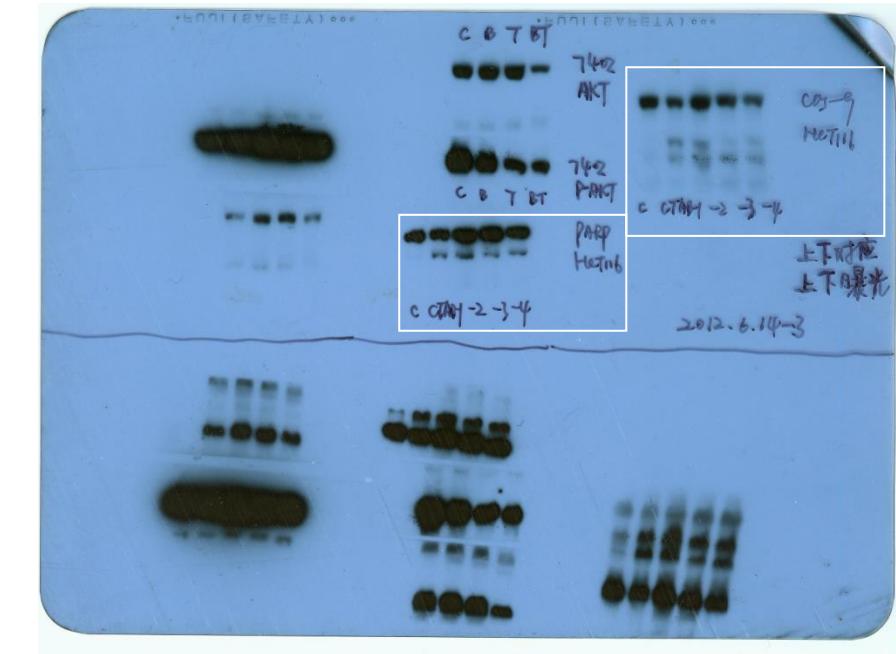
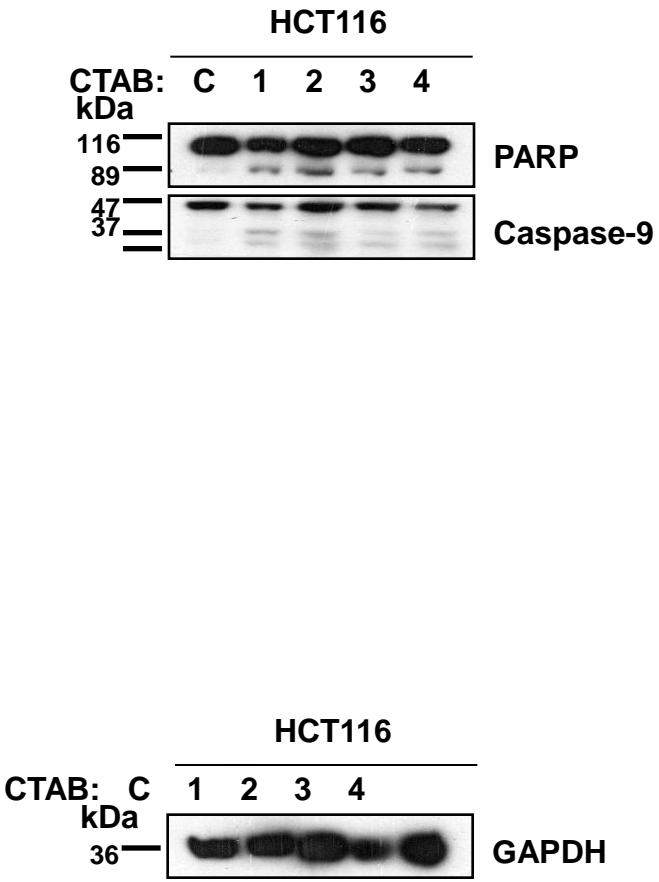
kDa

36

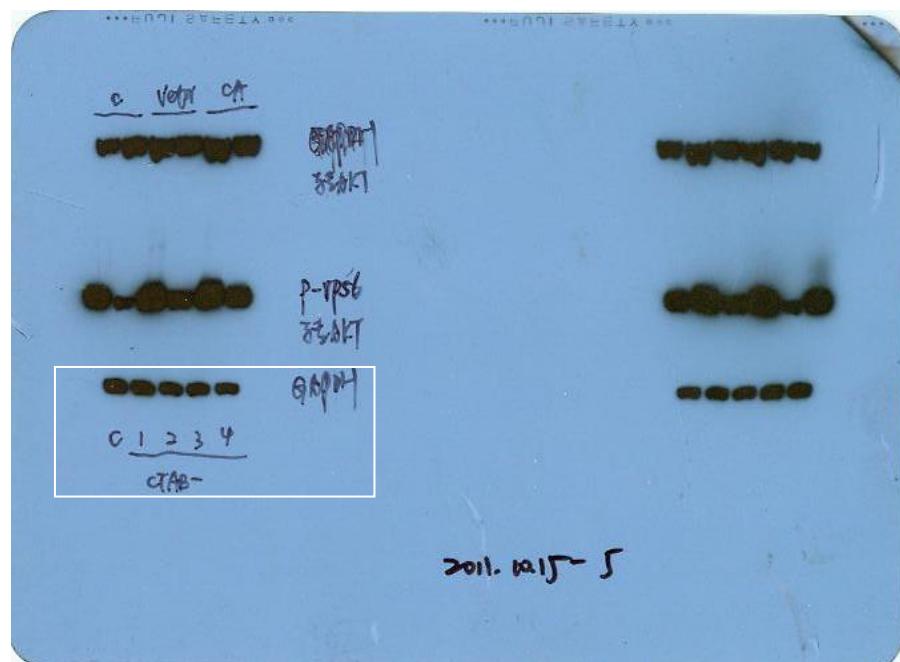
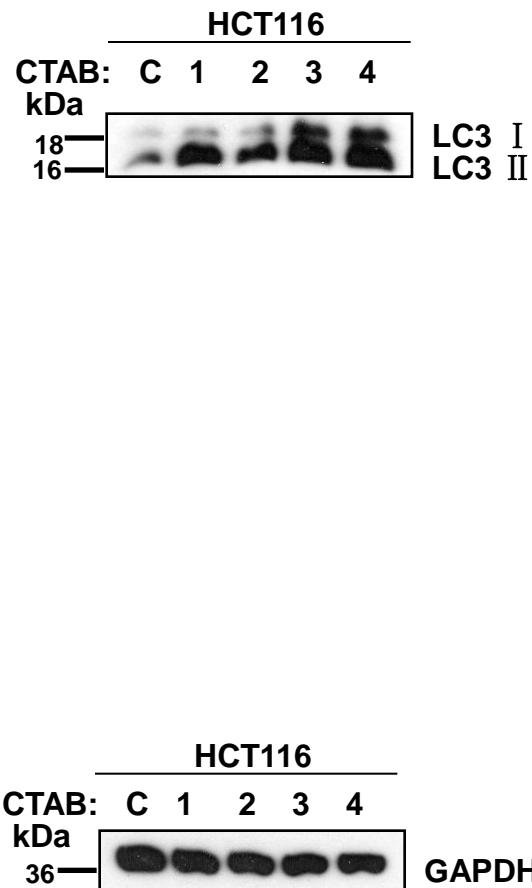
GAPDH



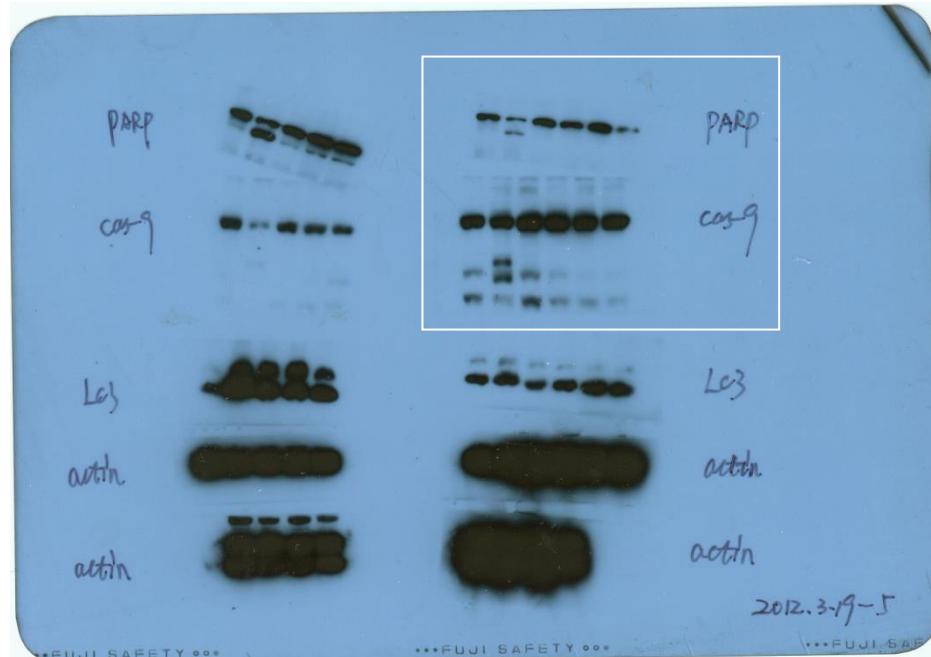
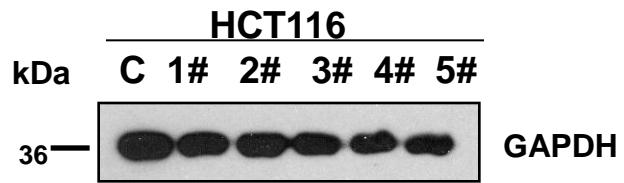
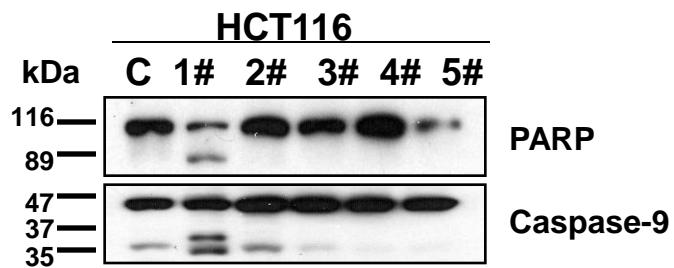
Supplementary Figure 4



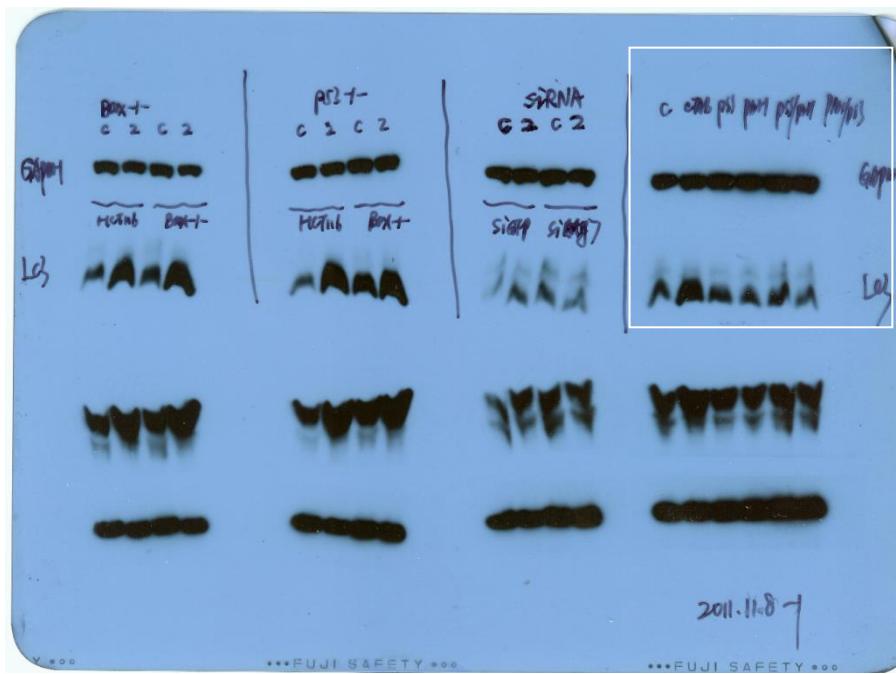
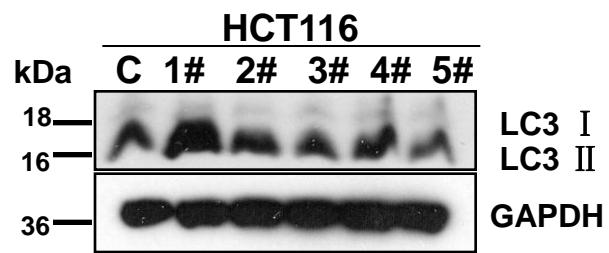
Supplementary Figure 5



Supplementary Figure 5



Supplementary Figure 6



Supplementary Figure 6