Role of autophagy in cell-penetrating peptide transfection model

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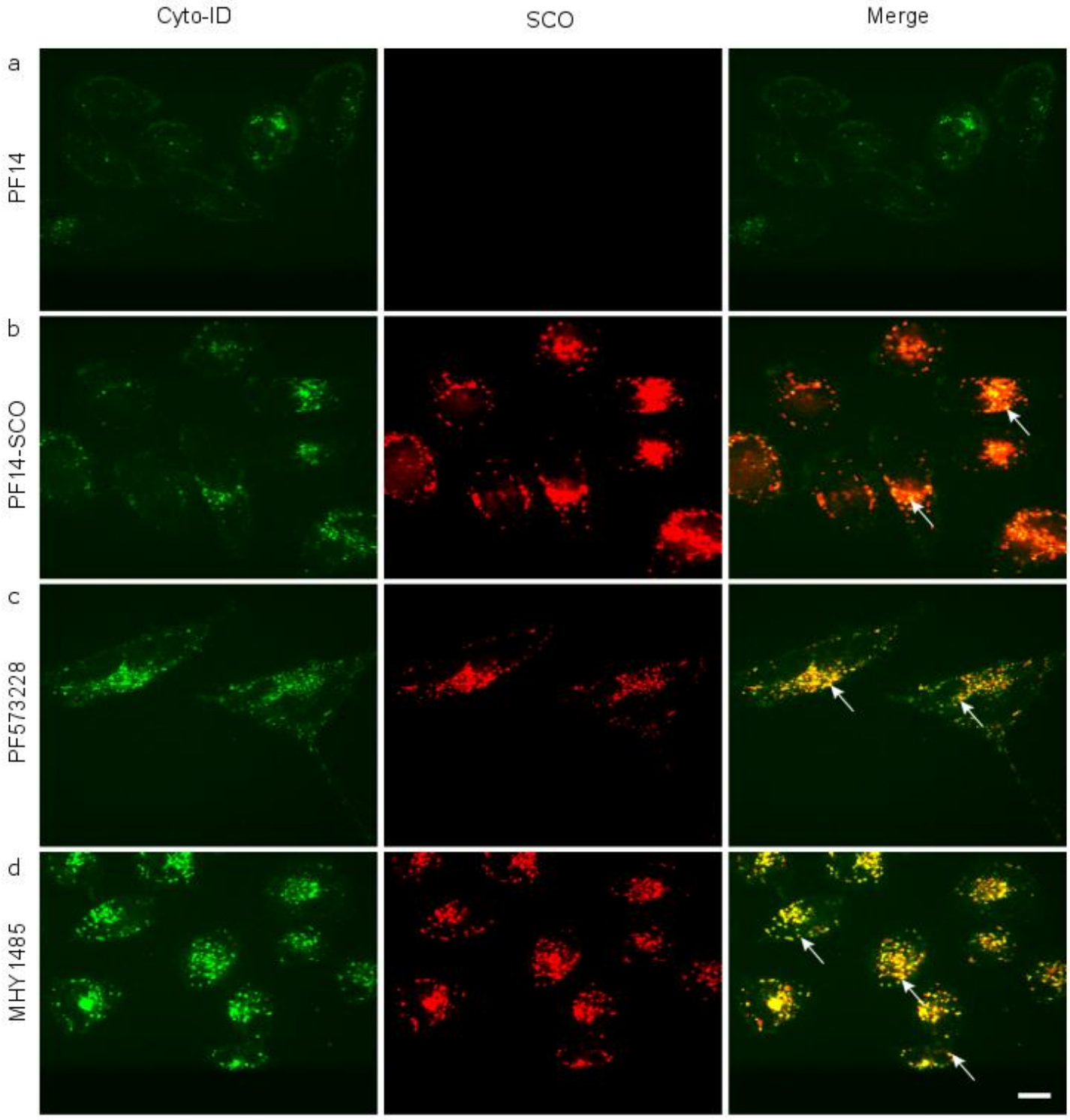
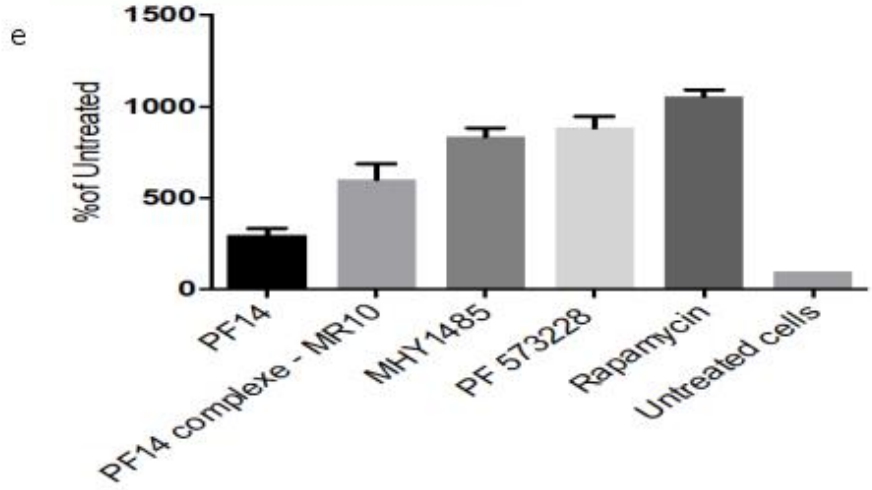

Cyto-ID
SCO
Merge
a
PF14
b
PF14-SCO
c
PF573228
d
MHY1485


e
1500
1000
500
0
%of Untreated
PF14
PF14 complexe - MR10
MHY1485
PF 573228
Rapamycin
Untreated cells

Supplementary Figure 1: Induction of autophagy by PF14 and its complexes with SCO in HeLa cells using detection by Cyto-ID staning. Confocal micrographs of HeLa-pLuc705 cells treated with 2 µM PF14 (a), PF14-SCO-Alexa 568 nano-complexes (red, formed at molar ratio 10/1) for 24 h (b), and autophagosomes stained with Cyto-ID (green). The cells in c and d were treated before addition of PF14-SCO complexes with (c) 6 µM FAK inhibitor (PF573228) or (d) 10 nM mTOR activator (MHY1485) for 1 h. The fluorescence signal intensity levels were adjusted for better visibility. (e) Quantification of Cyto-ID signal from HeLa-705 cells in response to treatment with PF14, its complexes with SCO at MR 10, PF14 complexes with 10 nM mTOR activator (MHY1485) or 6 µM focal adhesion kinase (PF573228) inhibitor, Scale bar is 10 µm.