Supporting Information for Publication

Visualization of GLUT1 trafficking in live cancer cells by the use of a dual-fluorescence reporter

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Figure S1. Establishment of the GLUT3 tracing system under lysosome activation condition in cancer cells. (A, C) Representative images observed by fluorescence microscopy of SW1353 cells expressing mCherry-EGFP-LC3 or mCherry-EGFP-GLUT3 plasmids in medium containing a normal glucose concentration or reduced glucose concentration for starvation. Scale bar = 30 μm. Inset boxes in the merged images were magnified in the right panel. (B) Quantitative analysis of LC3 puncta in the presence or absence of glucose, *P < 0.05. (D) Statistical analysis of TC, ***P < 0.001.
Figure S2. GLUT1 trafficking in early and recycling endosomes by assessed mCherry-EGFP-GLUT1 and Rab5/Rab11 imaging. (A, B) pmCherry-EGFP-GLUT1 and Myc-Rab5 or Myc-Rab11 were cotransfected into SW1353 cells for 48 h, respectively; cells undergoing glucose starvation were used as a control. Antibody against Myc (blue) was used to identify Rab5 or Rab11, and images were obtained by confocal microscopy. Scale bar = 30 μm.