

SUPPLEMENTAL DATA

Figure S1. Brefeldin A treatment (BFA) destroys the structure of the trans-Golgi network. HA- β 1AR cells were surface-labeled with HA mAb were incubated with ISO and BFA (5 μ g/ml) at 37 °C, fixed at 4h and immunostained for β 1AR (red) and TGN46 (green).

Figure S2. Brefeldin A treatment does not influence the endocytosis of β 1AR. Surface-labeled HA- β 1AR cells were incubated at 37 °C with ISO and BFA or vehicle and fixed at 20 min. Surface and endocytosed receptors were visualized with goat anti-rabbit Alexa-594 (red). The nuclei were detected with DAPI (blue).

Figure S3. Brefeldin A treatment neither impacts the distribution of EEA-1 nor alters the colocalization of endocytosis of β 1AR with EEA-1. Surface-labeled HA- β 1AR cells were incubated at 37 °C with ISO and BFA or vehicle, fixed at 4h and immunostained for β 1AR (red) and EEA-1 (green). Colocalization of HA- β 1AR with EEA-1 was shown in yellow in the merged images. The bottom panels show quantitative colocalization analysis using linescan.

Figure S4. Brefeldin A treatment blocks the entry of endocytosed β 1AR into the late endosomes. Surface-labeled HA- β 1AR cells were incubated at 37 °C with ISO and BFA or vehicle, fixed at 4h and immunostained for β 1AR (red) and Rab-7 (green). Colocalization of HA- β 1AR with Rab-7 was shown in yellow in the merged images. The bottom panels show quantitative colocalization analysis using linescan.

Figure S5. Endocytosed β 1AR does not accumulate in the endoplasmic reticulum after Brefeldin A treatment. Surface-labeled HA- β 1AR cells were incubated at 37 °C with ISO and BFA or vehicle, fixed at 4h and immunostained for β 1AR (red) and calnexin (green). Colocalization of HA- β 1AR with Rab-7 was shown in yellow in the merged images. The bottom panels show quantitative colocalization analysis using linescan.

Figure S6. Co-localization of β 1AR with GFP-arrestin-3 in response to ISO stimulation. HA- β 1AR cells were transfected with cDNA encoding GFP-arrestin-3 and surface-labeled with rabbit HA antibody. Cells were incubated with ISO at 37 °C, fixed at indicated time points and immunostained for surface and endocytosed β 1AR (red). Note: ISO stimulation triggers GFP-arrestin-3 forming punctures before β 1AR endocytosis at 2 min. Images were selected from 120 cells in 3 independent experiments.

β 1AR

TGN46

Merge

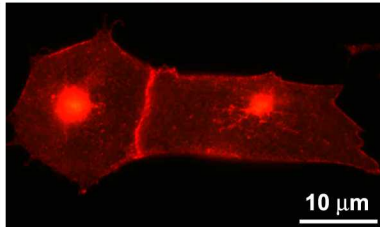
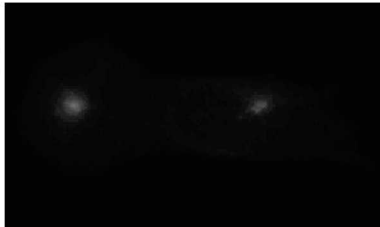
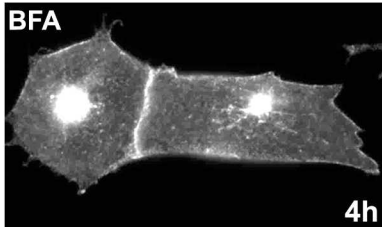
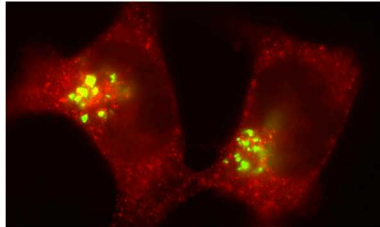
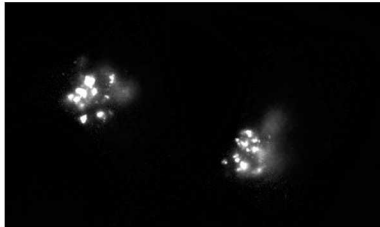
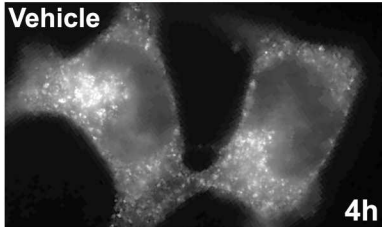


Fig. S1

β 1AR

β 1AR + DAPI

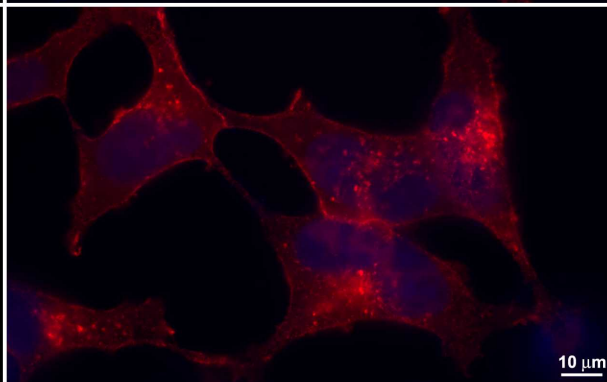
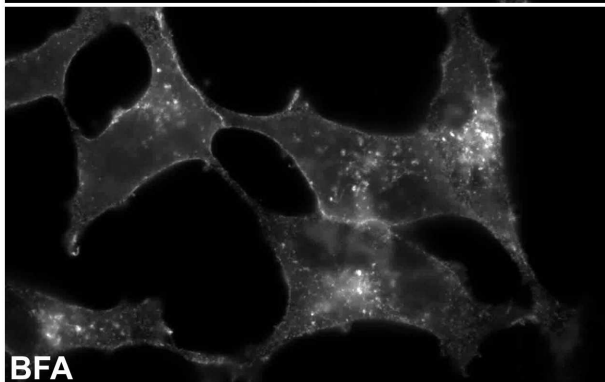
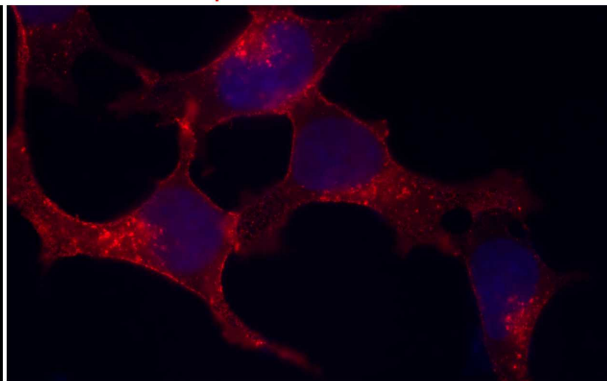
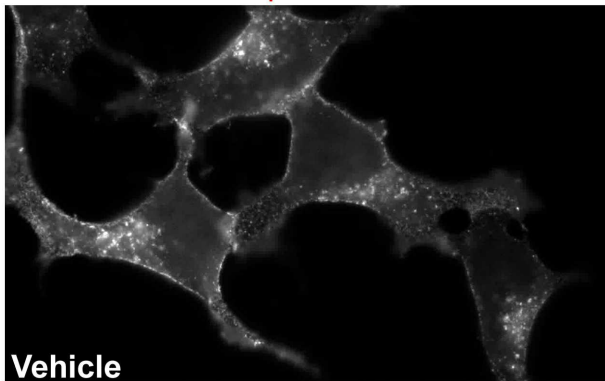


Fig. S2

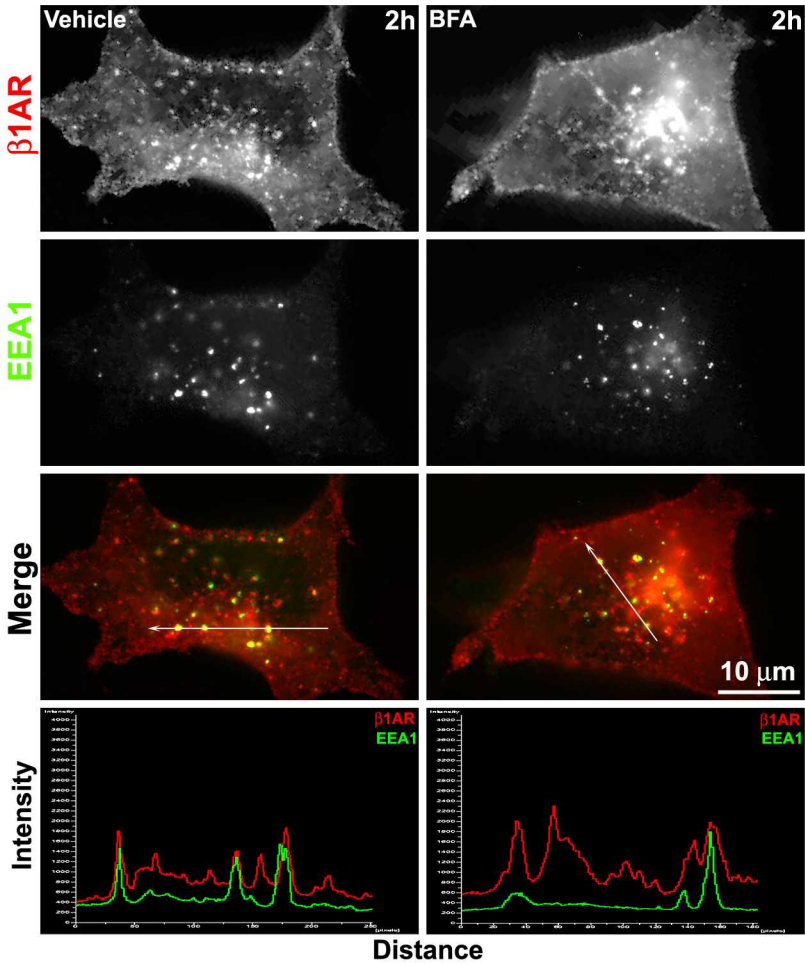


Fig. S3

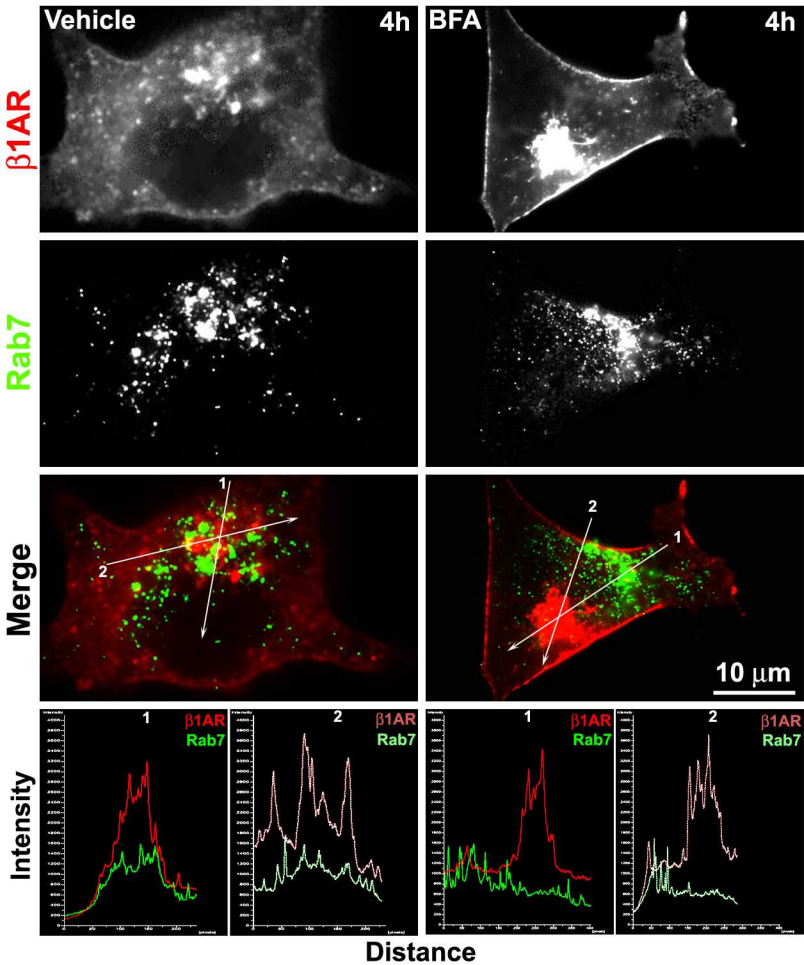
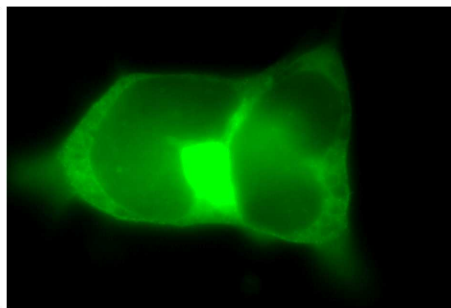
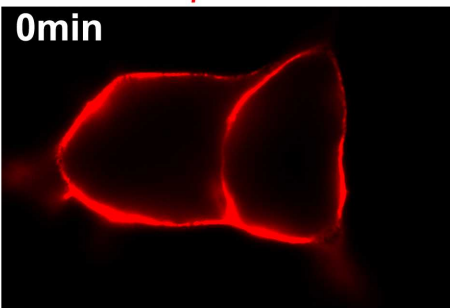
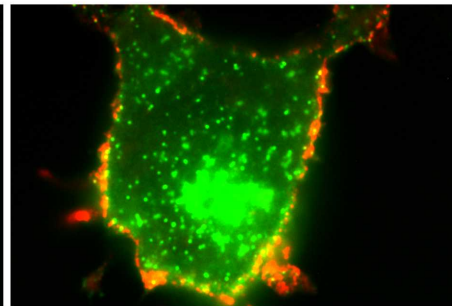
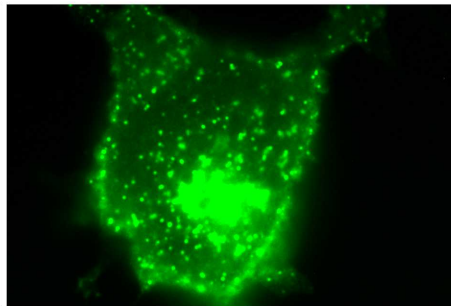
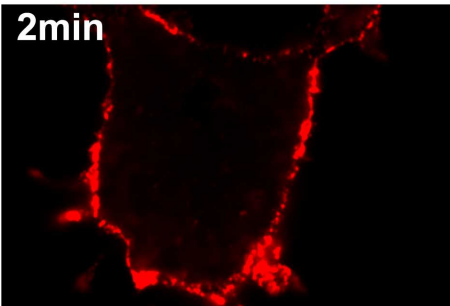
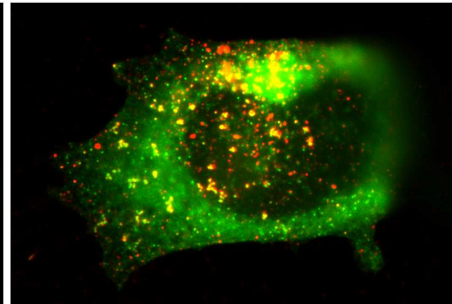
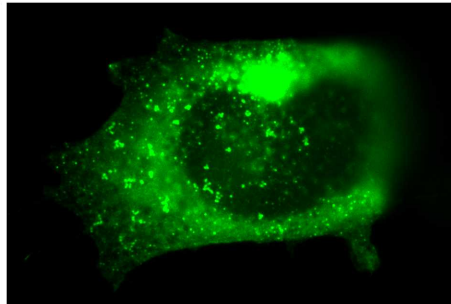
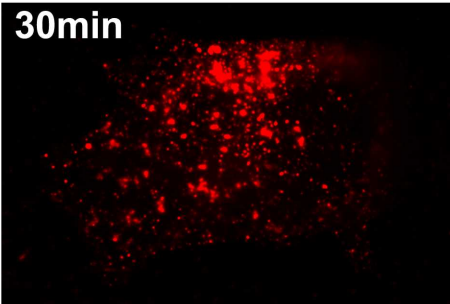
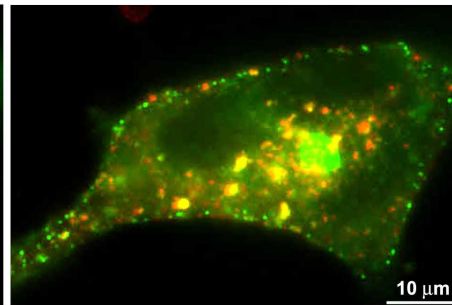
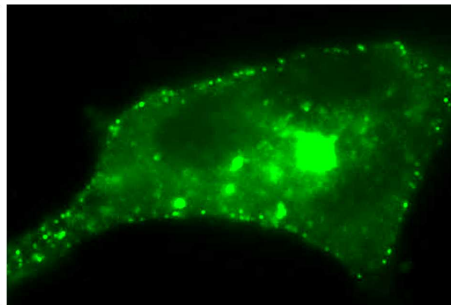
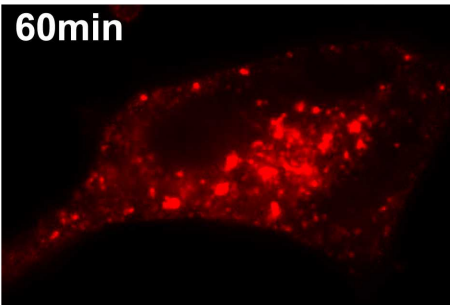


Fig. S4

β 1-AR**Arrestin3-GFP****Merge****0min****2min****30min****60min**10 μ m**Fig. S6**